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MICHIGAN STATISTICAL ABSTRACT

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Editor

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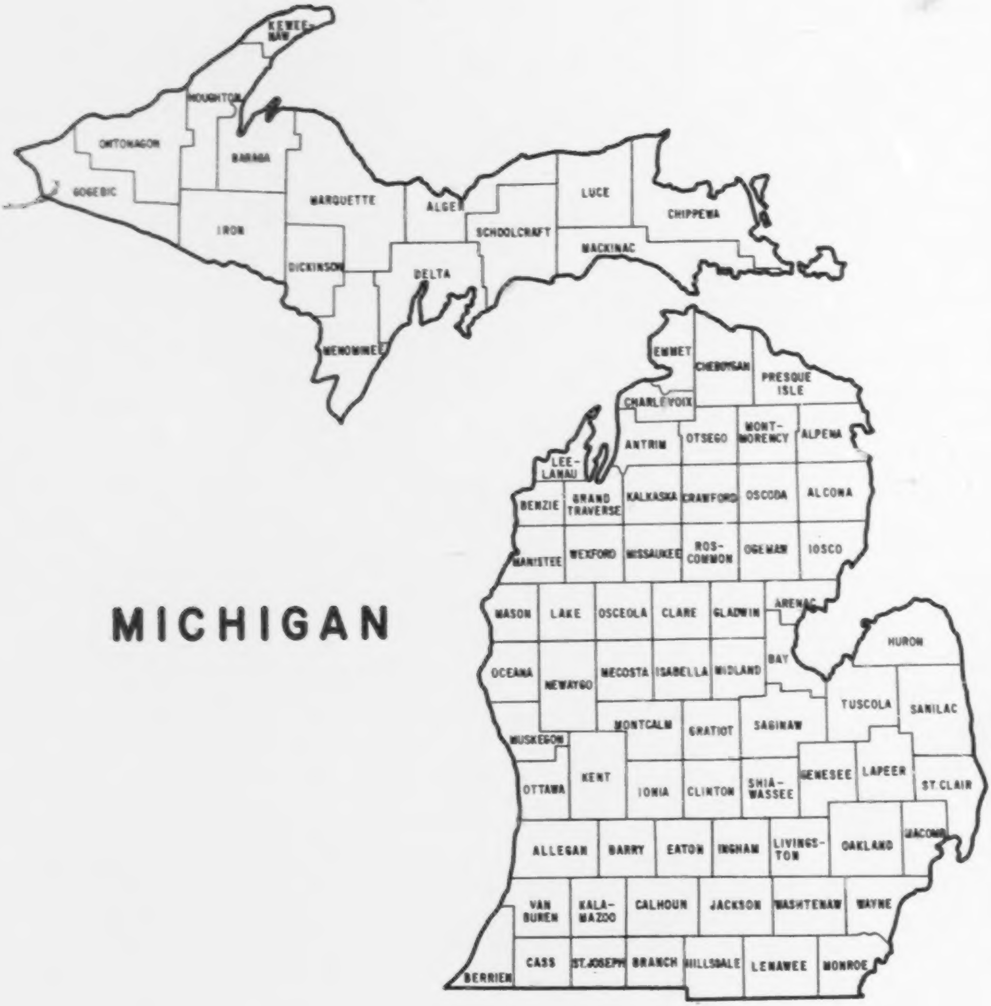

KEWEE-NAW
HOUGHTON
ONTONAGON
BARAGA
GOGEBIC
MARQUETTE
ALGER
LUCE
CHIPPEWA
IRON
SCHOOLCRAFT
MACKINAC
DICKINSON
DELTA
MENOMINEE
EMMET
CHEBOYGAN
PRESQUE ISLE
CHARLEVOIX
ANTRIM
OTSEGO
MONT-MORENCY
ALPENA
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MECOSTA
ISABELLA
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MONROE

PREFACE

Gail Guip, secretary at the Bureau of Business Research managed the production of this edition. Her contribution is gratefully acknowledged. She also typed the tables and Darleen Gartrell typed the narrative. Data were collected by Robert Fish, Revathi Balasubramanian, Mona Chatterji, Gail Guip and me. We all proofread.

A host of individuals in government and private organizations contributed time and material. The Regional Economic Measurment Division of the Bureau of Economic Analysis, Washington D.C., is the source on income data that appear in Chapter VI and several other chapters. The office of Systems and Computer Services in Michigan's Department of Commerce actually prepared camera ready copy from BEA tapes. The Michigan Employment Employment Commission's Research and Statistics Division in Detroit was most helpful in securing many of the statistics that appear in Chapter V. The Office of Vital and Health Statistics, Michigan Department of Public Health, prepared much of the material for Chapter III. The Geological Survey Division, Michigan Department of Natural Resources prepared updated material for Chapter XIII. The Michigan Department of Transportation prepared tables for Chapter XVII. Other cooperating state agencies include the following departments: Management and Budget, Mental Health, Social Services, Education, States, Treasury, State Police, Licensing Regulation, and Commerce, and Agriculture.

Those who find this Abstract useful are advised to consult the Economic Report of the Governor, which also appears annually. It offers a good description of the state's economy as well as the most recent economic forecast. The Senate Fiscal Agency also publishes documents relating to the fiscal and economic conditions of our state.

At the University of Michigan each November, since 1952, the Department of Economics has sponsored the Annual Conference on the Economic Outlook. The data base which supports their national and Michigan forecast is substantial, and in a computer format. The Institute of Labor and Industrial Relations forecasts regional economics. A book by Harold T. Shapiro and George Fulton, A Regional Econometric Forecasting System: Major Economic Areas in Michigan, will be available from The University of Michigan Press this fall.

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I. POPULATION

Apportionment of the U.S. House of Representatives is on the basis of population; hence, the constitutional mandate to conduct a census of the nation's inhabitants every ten years. Despite efforts on the part of organizations inside and outside of government, some people do not get counted. Individuals are missed in the decennial censuses because they have no regular domicile where they can be reached, fail to report the fact of their existence to authorities, or deliberately conceal their existence for one reason or another. Published *Census of Population* statistics for states, counties, cities, villages, and other places represent the number of people that could be accounted for on census day, plus those that were found subsequently in "Were you counted?" campaigns.

The U.S. Bureau of the Census, the agency directly responsible for counting inhabitants in this country, uses the opportunity to collect a multitude of other information as well. Statistics on sex, race, age, and household relationship are derived from answers to relevant questions on census forms sent to every household; that is, the same forms used for the population count itself.

Census day has been set on April 1 since 1930. In 1920 it was January 1 and in 1910 it was April 15. Between 1830 and 1900, census day was June 1. For 1820, the first such tabulation from which data have been selected for reproduction in this abstract, census day was August 7.

Urban and *Rural* were redefined in 1950. According to the current definition, the urban population comprises all persons living in (1) places of 2,500 inhabitants or more incorporated as cities, boroughs, or villages; (2) the densely populated, settled urban fringe, including both incorporated and unincorporated places, around cities of 50,000 or more; and (3) unincorporated places of 2,500 or more outside any urban fringe. According to the definition used prior to 1950, the urban population was limited to persons living in incorporated places or 2,500 inhabitants or more and in other areas classified as urban under special rules relating to population size and density. The rural population is that remaining of the total, after the above definition is applied.

The Census Bureau also estimates the population of states for intercensal years. These estimates, reproduced in Table 1-1, are based upon formulae that incorporated data on known births and deaths, school enrollments, automobile registration, and other factors thought to reflect population. Other techniques are used to produce estimates of net population flows, that is, net migration statistics shown in Table 1-4.

Intercensal estimates of the population of Michigan counties for July 1, 1984 were prepared by the Department of Management and Budget of the State of

Michigan. This state agency works closely with the U.S. Bureau of the Census in developing a technique for allocating the estimated state population totals among counties. The Bureau of the Census provides the July 1 population estimates for each state.

Another source of interim population estimates is the Bureau of Economic Analysis of the U.S. Department of Commerce. That agency is responsible for calculating personal and per capita personal income for states and counties. Consequently, a part of its program involves making population estimates. These may differ somewhat from the ones supplied by the state's Budget Bureau because of different data employed and variations in techniques.

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TABLE I-1. CENSAL AND INTERCENSAL ESTIMATES OF THE TOTAL RESIDENT AND CIVILIAN POPULATION OF MICHIGAN AND THE UNITED STATES: 1 JULY 1955-1984

(In thousands)

	Civilian population		Total population[a]	
Year	Michigan	United States	Michigan	United States
1955	7,270	162,967	7,285	165,069
1956	7,452	166,055	7,465	168,088
1957	7,554	169,110	7,569	171,187
1958	7,652	172,226	7,667	174,149
1959	7,750	175,277	7,767	177,135
1960	7,818	178,136	7,834	179,975
1961	7,871	181,123	7,893	182,973
1962	7,909	183,644	7,933	185,738
1963	8,034	186,448	8,058	188,438
1964	8,164	189,085	8,187	191,085
1965	8,336	191,539	8,357	193,460
1966	8,492	193,345	8,512	195,501
1967	8,610	195,181	8,630	197,374
1968	8,677	197,026	8,696	199,312
1969	8,765	199,067	8,781	201,306
1970	8,880	201,985	8,901	203,805
1971	8,957	204,866	8,972	206,827
1972	9,011	207,511	9,025	209,284
1973	9,058	209,600	9,072	211,357
1974	9,098	211,636	9,109	213,342
1975	9,095	213,788	9,108	215,465
1976	9,105	215,894	9,177	217,563
1977	9,147	218,106	9,157	219,760
1978	9,194	220,467	9,202	222,095
1979	9,242	222,969	9,249	224,567
1980	9,251	225,552	9,262	227,236
1981	9,260	227,894	9,210	229,542
1982	9,105	230,152	9,115	231,822
1983	9,058	232,327	9,050	234,023
1984	9,063	234,443	9,075	236,158

SOURCE: Bureau of the Census, *Current Population Reports, Series P-25*, no.304 (Washington, D.C.: 1965); no. 460 (1971); no. 468 (1971); no. 908 (1981), special release; and Michigan Department of Management and Budget, special release.

a. Figures exclude members of the armed forces stationed abroad.

TABLE I-2. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1982

Place	Population		Place	Population	
	1980	1982		1980	1982
Addison	655	712	Big Rapids	14,361	14,072
Adrian	21,276	20,871	Bingham Farms	529	484
Ahmeek	210	214	Birch Run	1,196	1,197
Akron	538	530	Birmingham	21,689	20,965
Alanson	508	511	Blissfield	3,107	3,140
Albion	11,059	10,867	Bloomfield Hills	3,985	3,887
Algonac	4,412	4,345	Bloomingdale	537	545
Allegan	4,576	4,580	Boyne City	3,348	3,276
Allen	266	235	Boyne Falls	378	397
Allen Park	34,196	32,418	Breckenridge	1,495	1,459
Alma	9,652	9,003	Breedsville	244	227
Almont	1,857	1,889	Bridgman	2,235	2,243
Alpena	12,214	11,942	Brighton	4,268	4,334
Alpha	229	209	Britton	693	671
Ann Arbor	107,969	104,880	Bronson	2,271	2,173
Applegate	257	237	Brooklyn	1,110	1,081
Armada	1,392	1,337	Brown City	1,163	1,148
Ashley	570	651	Buchanan	5,142	5,062
Athens	960	969	Buckley	357	392
Au Gres	768	786	Burlington	367	349
Auburn	1,921	1,774	Burr Oak	853	859
Augusta	913	928	Burton	29,976	29,238
Bad Axe	3,184	3,197	Byron	689	673
Bladwin	674	710	Cadillac	10,199	10,368
Bancroft	618	603	Caledonia	722	750
Bangor	2,001	1,918	Calumet	1,013	1,033
Baraga	1,055	1,112	Camden	420	370
Baroda	627	613	Capac	1,377	1,378
Barryton	422	449	Carleton	2,786	2,775
Barton Hills	357	342	Carney	236	249
Battle Creek	56,339	55,520	Caro	4,317	4,167
Bay City	41,593	40,834	Carson City	1,229	1,187
Bear Lake	388	396	Carsonville	622	642
Beaverton	1,023	1,090	Caseville	851	911
Belding	5,634	5,667	Casnovia	348	349
Bellaire	1,063	1,065	Caspian	1,038	966
Belleville	3,366	3,214	Cass City	2,258	2,176
Bellevue	1,289	1,282	Cassopolis	1,933	1,855
Benton Harbor	14,707	14,211	Cedar Springs	2,615	2,718
Benzonia	466	497	Cement City	539	574
Berkley	18,637	18,152	Center Line	9,293	8,916
Berrien Springs	2,042	1,956	Central Lake	895	893
Bessemer	2,553	2,409	Centreville	1,202	1,219
Beulah	454	475	Charlevoix	3,296	3,241
Beverly Hills	11,598	11,351	Charlotte	8,251	8,205

TABLE I-2. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1982 (cont.)

Place	Population		Place	Population	
	1980	1982		1980	1982
Chatham	315	275	Eagle	155	152
Cheboygan	5,106	5,156	East Detroit	38,280	37,033
Chelsa	3,816	3,889	East Grand Rapids	10,914	11,110
Chesaning	2,656	2,527	East Jourdan	2,185	2,134
Clare	3,300	3,155	East Lake	514	482
Clarkston	968	951	East Lansing	51,392	48,824
Clarksville	348	388	East Tawas	2,584	2,612
Clawson	15,103	14,513	Eaton Rapids	4,510	4,348
Clayton	396	370	Eau Claire	573	533
Clifford	406	370	Ecorse	14,447	13,956
Climax	619	631	Edmore	1,176	1,251
Clinton	2,342	2,260	Edwardsburg	1,135	1,070
Clio	2,669	2,594	Elberta	556	527
Coldwater	9,461	9,049	Elk Rapids	1,504	1,440
Coleman	1,429	1,434	Elkton	952	953
Coloma	1,833	1,753	Ellsworth	436	455
Colon	1,190	1,129	Elsie	1,022	1,005
Columbiaville	953	1,015	Emmett	285	277
Concord	900	882	Empire	340	379
Constantine	1,680	1,708	Escanaba	14,355	14,337
Coopersville	2,889	2,890	Essexville	4,378	4,332
Copemish	287	254	Estral Beach	463	464
Copper City	244	236	Evart	1,945	2,072
Corunna	3,206	3,100	Fairgrove	691	675
Croswell	2,073	2,004	Farmington	11,022	10,577
Crystal Falls	1,965	1,974	Farmington Hills	58,056	60,945
Custer	341	323	Farwell	804	792
Daggett	274	282	Fennville	934	943
Dansville	479	487	Fenton	8,098	8,095
Davison	6,087	5,955	Ferndale	26,227	25,550
De Tour Village	466	456	Ferrysburg	2,440	2,487
De Witt	3,165	3,203	Fife Lake	402	428
Dearborn	90,660	86,544	Flat Rock	6,853	6,557
Dearborn Heights	67,706	64,702	Flint	159,611	154,019
Decatur	1,915	1,804	Flushing	8,467	8,467
Deckerville	887	881	Forestville	159	143
Deerfield	957	935	Fountain	195	219
Detroit	1,202,493	1,138,717	Fowler	1,021	1,009
Dexter	1,524	1,486	Fowlerville	2,289	2,340
Dimondale	1,008	1,026	Frankenmuth	3,753	3,722
Douglas	948	969	Frankfort	1,603	1,522
Dowagiac	6,307	6,221	Franklin	2,864	2,724
Dryden	650	651	Faser	14,560	14,233
Dundee	2,575	2,558	Free Soil	212	208
Durand	4,206	4,059	Freeport	479	451

TABLE I-2. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1982 (cont.)

Place	Population		Place	Population	
	1980	1982		1980	1982
Fremont	3,672	3,676	Highland Park	27,909	25,733
Fruitport	1,143	1,140	Hillman	373	397
Gaastra	404	391	Hillsdale	7,432	7,385
Gagetown	428	440	Holland	26,281	26,883
Gaines	440	433	Holly	4,874	4,961
Galesburg	1,822	1,836	Homer	1,791	1,730
Galien	692	671	Honor	281	245
Garden	296	303	Hopkins	536	537
Garden City	35,640	33,811	Houghton	7,512	6,980
Gaylord	3,011	3,063	Howard City	1,118	1,261
Gibraltar	4,458	4,330	Howell	6,976	7,018
Gladstone	4,533	4,665	Hubbardston	421	414
Gladwin	2,479	2,525	Hudson	2,545	2,650
Gobles	816	800	Hudsonville	4,884	4,974
Goodrich	795	843	Huntington Woods	6,937	6,552
Grand Beach	227	203	Imlay City	2,495	2,336
Grand Blanc	6,848	6,583	Inkster	35,190	33,786
Grand Haven	11,763	11,791	Ionia	5,920	5,825
Grand Ledge	6,920	6,954	Iron Mountain	8,341	8,185
Grand Rapids	181,843	182,774	Iron River	2,426	2,410
Grandville	12,412	12,586	Ironwood	7,741	7,551
Grant	683	704	Ishpeming	7,538	7,353
Grass Lake	962	979	Ithaca	2,950	2,867
Grayling	1,792	1,763	Jackson	39,739	38,514
Greenville	8,019	8,176	Jonesville	2,185	2,172
Grosse Pointe	5,901	5,579	Kalamazoo	79,722	79,146
Grosse Pte Farms	10,551	10,254	Kaleva	445	425
Grosse Pte Park	14,437	13,761	Kalkaska	1,654	1,668
Grosse Pte Shores	3,122	3,003	Keego Harbor	3,083	3,002
Grosse Pte Woods	18,886	18,219	Kent City	860	860
Hamtramck	21,300	20,071	Kentwood	30,438	32,009
Hancock	5,122	4,991	Kinde	600	608
Hanover	490	503	Kingsford	5,290	5,385
Harbor Beach	2,000	1,971	Kingsley	664	708
Harbor Springs	1,567	1,567	Kingston	417	403
Harper Woods	16,361	15,461	Laingsburg	1,145	1,204
Harrietta	139	152	Lake Angelus	397	424
Harrison	1,700	1,773	Lake Ann	235	217
Harrisville	559	554	Lake City	843	877
Hart	1,888	1,789	Lake Linden	1,181	1,188
Hartford	2,493	2,461	Lake Odessa	2,171	2,156
Hastings	6,418	6,391	Lake Orion	2,907	2,786
Hazel Park	20,914	20,645	Lakeview	1,139	1,231
Hersey	364	416	Lakewood Club	695	721
Hesperia	876	863	Lanse	2,500	2,441

TABLE I-2. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1982 (cont.)

Place	Population		Place	Population	
	1980	1982		1980	1982
Lansing	130,414	128,338	Melvin	171	169
Lapeer	6,198	5,870	Melvindale	12,322	11,934
Lathrup Village	4,639	4,486	Memphis	1,171	1,180
Laurium	2,678	2,702	Mendon	951	935
Lawrence	903	879	Menominee	10,099	9,[illegible]18
Lawton	1,558	1,753	Merrill	851	863
Le Roy	293	293	Mesick	374	417
Lennon	600	590	Metamora	552	596
Leonard	423	438	Michiana	333	348
Leslie	2,110	2,164	Middleville	1,797	1,846
Lexington	765	722	Midland	37,269	37,372
Lincoln	361	330	Milan	4,182	4,137
Lincoln Park	45,105	43,533	Milford	5,041	5,006
Linden	2,174	2,152	Millersburg	231	222
Litchfield	1,353	1,329	Millington	1,237	1,189
Livonia	104,814	101,366	Minden City	284	275
Lowell	3,707	3,768	Mineral Hills	257	266
Ludington	8,937	8,954	Monroe	23,531	22,515
Luna Pier	1,443	1,480	Montague	2,332	2,336
Luther	414	472	Montgomery	408	451
Lyons	708	753	Montrose	1,706	1,727
Mackinac Island	479	511	Morenci	2,110	2,161
Mackinaw City	820	826	Morley	507	490
Madison Heights	35,375	34,609	Morrice	733	727
Mancelona	1,432	1,432	Mount Clemens	18,991	18,845
Manchester	1,686	1,701	Mount Morris	3,246	3,173
Manistee	7,665	7,441	Mount Pleasant	23,746	22,904
Manistique	3,962	3,928	Muir	698	679
Manton	1,212	1,330	Mulliken	550	610
Maple Rapids	683	697	Munising	3,083	3,028
Marcellus	1,134	1,236	Muskegon	40,823	39,995
Marine City	4,414	4,335	Muskegon Heights	14,611	14,091
Marion	816	846	Nashville	1,628	1,643
Marlette	1,761	1,614	Negaunee	5,189	5,186
Marquette	23,288	22,438	New Baltimore	5,439	5,856
Marshall	7,201	7,152	New Buffalo	2,821	2,647
Martin	447	492	New Era	534	507
Marysville	7,345	7,426	New Haven	1,871	1,822
Mason	6,019	6,017	New Lothrop	646	615
Mattawan	2,143	2,275	Newaygo	1,271	1,355
Maybee	490	502	Newberry	2,120	1,970
Mayville	958	967	Niles	13,115	12,633
McBain	519	534	North Adams	565	531
McBride	252	234	North Branch	896	845
Mecosta	428	477	North Muskegon	4,024	3,869

TABLE I-2. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1982 (cont.)

Place	Population		Place	Population	
	1980	1982		1980	1982
Northport	611	613	Portage	38,157	38,800
Northville	5,689	5,748	Portland	3.963	3,918
Norton Shores	22,025	21,556	Posen	270	266
Norway	2,919	2,879	Potterville	1,502	1,497
Novi	22,525	23,023	Powers	490	431
Oak Park	31,537	30,716	Prescott	332	360
Oakley	412	391	Quincy	1,569	1,544
Olivet	1,604	1,619	Ravenna	951	930
Omer	403	404	Reading	1,203	1,225
Onaway	1,084	1,012	Reed City	2,221	2,314
Onekama	582	580	Reese	1,645	1,624
Onsted	670	636	Richland	486	515
Ontonagon	2,182	2,251	Richmond	3,536	3,522
Orchard Lake	1,798	1,660	River Rouge	12,912	12,220
Ortonville	1,190	1,237	Riverview	14,569	14,117
Otisville	682	663	Rochester	7,203	7,387
Otsego	3,802	3,921	Rockford	3,324	3,523
Otter Lake	456	472	Rockwood	3,346	3,139
Ovid	1,712	1,644	Rogers City	3,923	3,789
Owendale	308	305	Romeo	3,509	3,606
Owosso	16,455	15,822	Romulus	24,857	24,249
Oxford	2,746	2,679	Roosevelt Park	4,015	3,782
Parchment	1,817	1,810	Roscommon	834	895
Parma	873	932	Rose City	661	689
Paw Paw	3,211	3,414	Rosebush	336	306
Peck	606	564	Roseville	54,311	52,785
Pellston	565	578	Rothbury	522	516
Pentwater	1,165	1,131	Royal Oak	70,893	68,390
Perrinton	448	461	Saginaw	77,508	75,377
Perry	2,051	2,125	Saline	6,483	6,511
Petersburg	1,222	1,217	Sand Lake	388	392
Petoskey	6,097	6,093	Sandusky	2,216	2,161
Pewamo	488	484	Sanford	864	887
Pierson	216	223	Sarnac	1,421	1,390
Pigeon	1,247	1,236	Saugatuck	1,079	1,060
Pinckney	1,390	1,420	Sault Sainte Marie	14,448	14,337
Pinconning	1,430	1,415	Schoolcraft	1,359	1,478
Plainwell	3,751	3,715	Scottville	1,241	1,263
Pleasant Ridge	3,217	3,115	Sebewaing	2,046	2,013
Plymouth	9,986	9,578	Shelby	1,624	1,549
Pontiac	76,715	73,156	Shepherd	1,534	1,597
Port Austin	839	845	Sheridan	664	624
Port Hope	369	360	Sherwood	353	368
Port Huron	33,981	33,539	Shoreham	742	813
Port Sanilac	598	639	South Haven	5,943	5,861

TABLE I-2. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1982 (cont.)

Place	Population 1980	Population 1982	Place	Population 1980	Population 1982
South Lyon	5,214	5,082	Twining	196	198
South Range	861	897	Ubly	862	887
South Rockwood	1,353	1,253	Union City	1,667	1,639
Southfield	75,568	73,311	Unionville	578	588
Southgate	32,058	30,679	Utica	5,282	5,459
Sparta	3,373	3,484	Vandalia	447	407
Spring Lake	2,731	2,662	Vanderbilt	525	569
Springfield	5,917	5,807	Vassar	2,727	2,665
Springport	675	667	Vermontville	832	847
St. Charles	2,276	2,186	Vernon	1,008	1,045
St. Clair	4,780	4,685	Vicksburg	2,224	2,273
St. Clair Shores	76,210	73,450	Wakefield	2,591	2,648
St. Ignace	2,632	2,589	Waldron	570	537
St. Johns	7,376	7,393	Walker	15,088	15,337
St. Joseph	9,622	9,320	Walkerville	296	311
St. Louis	4,107	3,982	Walled Lake	4,748	4,507
Stambaugh	1,442	1,460	Warren	161,134	156,131
Standish	1,264	1,262	Watervliet	1,867	1,787
Stanton	1,315	1,366	Wayland	2,023	2,053
Stanwood	209	208	Wayne	21,159	20,520
Stephenson	967	921	Webberville	1,535	1,585
Sterling	457	422	West Branch	1,785	1,825
Sterling Heights	108,999	108,482	Westland	84,603	81,533
Stevensville	1,268	1,217	Westphalia	896	884
Stockbridge	1,213	1,229	White Cloud	1,101	1,159
Sturgis	9,468	9,540	White Pigeon	1,478	1,554
Sunfield	591	648	Whitehall	2,856	2,759
Suttons Bay	504	533	Whittemore	438	431
Swartz Creek	5,013	4,958	Williamston	2,981	2,918
Sylvan Lake	1,949	1,942	Wixom	6,705	6,563
Tawas City	1,967	2,027	Wolverine	364	395
Taylor	77,568	73,796	Wolverine Lake	4,968	4,892
Tecumseh	7,320	7,251	Woodhaven	10,902	10,807
Tekonsha	755	774	Woodland	431	480
Thompsonville	331	340	Wyandotte	34,006	32,526
Three Oaks	1,774	1,679	Wyoming	59,616	60,419
Three Rivers	7,015	7,568	Yale	1,814	1,774
Traverse City	15,516	15,439	Ypsilanti	24,031	23,846
Trenton	22,762	21,680	Zeeland	4,764	4,713
Troy	67,102	67,031	Zilwaukee	2,201	2,108
Turner	187	203			
Tustin	264	271	MICHIGAN	9,262,044	9,115,632

SOURCE: U.S. Department of Commerce, Bureau of the Census, Local Population Estimates--Michigan, (Washington, D.C.: September 1984), Series P-26, No. 82-22-SC, Table 1.

TABLE I-3. POPULATION OF MICHIGAN COUNTIES: CENSUS 1930, 1940, 1950, 1960, 1970, 1980; AND 1 JULY 1984 ESTIMATES

County	1930	1940	1950	1960	1970	1980	Preliminary[a] July 1, 1984 estimates
Alcona	4,989	5,463	5,856	6,352	7,113	9,740	9,850
Alger	9,327	10,167	10,007	9,250	8,568	9,225	8,826
Allegan	38,974	41,839	47,493	57,729	66,575	81,555	84,224
Alpena	18,574	20,766	22,189	28,556	30,708	32,315	31,408
Antrim	9,979	10,964	10,721	10,373	12,612	16,194	16,792
Arenac	8,007	9,233	9,644	9,860	11,149	14,706	15,160
Baraga	9,168	9,356	8,037	7,151	7,789	8,484	8,326
Barry	20,928	22,613	26,183	31,738	38,166	45,781	46,470
Bay	69,474	74,981	88,461	107,042	117,339	119,881	117,178
Benzie	6,587	7,800	8,306	7,834	8,593	11,205	11,141
Berrien	81,066	89,117	115,702	149,865	163,940	171,276	163,029
Branch	23,950	25,845	30,202	34,903	37,906	40,188	38,710
Calhoun	87,043	94,206	120,813	138,858	141,963	141,557	137,798
Cass	20,888	21,910	28,185	36,932	43,312	49,499	47,814
Charlevoix	11,981	13,031	13,475	13,421	16,541	19,907	19,709
Cheboygan	11,502	13,644	13,731	14,550	16,573	20,649	20,909
Chippewa	25,047	27,807	29,206	32,655	32,412	29,029	28,819
Clare	7,032	9,163	10,253	11,647	16,695	23,822	24,749
Clinton	24,174	26,671	31,195	37,969	48,492	55,893	55,284
Crawford	3,097	3,765	4,151	4,971	6,482	9,465	9,825
Delta	32,280	34,037	32,913	34,298	35,924	38,947	39,450
Dickinson	29,941	28,731	24,844	23,917	23,753	25,341	25,863
Eaton	31,728	34,124	40,023	49,684	68,892	88,337	89,292
Emmet	15,109	15,791	16,534	15,904	18,331	22,992	23,610
Genesee	211,641	227,944	270,963	374,313	445,589	450,449	434,148

TABLE I-3. POPULATION OF MICHIGAN COUNTIES: CENSUS 1930, 1940, 1950, 1960, 1970, 1980; AND 1 JULY 1984 ESTIMATES (cont.)

County	1930	1940	1950	1960	1970	1980	Preliminary[a] July 1, 1984 estimates
Gladwin	7,424	9,385	9,451	10,769	13,471	19,957	21,287
Gogebic	31,577	31,797	27,053	24,370	20,676	19,686	19,319
Grand Traverse	20,011	23,390	28,598	33,490	39,175	54,899	57,039
Gratiot	30,252	32,205	33,429	37,012	39,246	40,448	39,682
Hillsdale	27,417	29,092	31,916	34,742	37,171	42,071	41,678
Houghton	52,851	47,631	39,771	35,654	34,652	37,872	38,109
Huron	31,132	32,584	33,149	34,006	34,083	36,459	36,002
Ingham	116,587	130,616	172,941	211,296	261,039	275,520	271,671
Ionia	35,093	35,710	38,158	43,132	45,848	51,815	52,380
Iosco	7,517	8,560	10,906	16,505	24,905	28,349	30,234
Iron	20,805	20,243	17,692	17,184	13,813	13,635	14,015
Isabella	21,126	25,982	28,964	35,348	44,594	54,110	54,569
Jackson	92,304	93,108	107,925	131,994	143,274	151,495	145,314
Kalamazoo	91,368	100,085	126,707	169,712	201,550	212,378	215,237
Kalkaska	3,799	5,159	4,597	4,382	5,372	10,952	11,500
Kent	240,511	246,338	288,292	363,187	411,044	444,506	461,718
Keweenaw	5,076	4,004	2,918	2,417	2,264	1,963	2,071
Lake	4,066	4,798	5,257	5,338	5,661	7,711	8,425
Lapeer	28,348	32,116	35,794	41,926	52,361	70,038	69,039
Leelanau	8,206	8,436	8,647	9,321	10,872	14,007	14,381
Lenawee	49,849	53,110	64,629	77,789	81,951	89,948	88,195
Livingston	19,274	20,863	26,725	38,233	58,967	100,289	100,634
Luce	6,528	7,423	8,147	7,827	6,789	6,659	5,969
Mackinac	8,783	9,438	9,287	10,853	9,660	10,178	10,238
Macomb	77,146	107,638	184,961	405,804	625,309	694,600	686,161

TABLE I-3. POPULATION OF MICHIGAN COUNTIES: CENSUS 1930, 1940, 1950, 1960, 1970, 1980; AND 1 JULY 1984 ESTIMATES (cont.)

County	1930	1940	1950	1960	1970	1980	Preliminary[a] July 1, 1984 estimates
Manistee	17,409	18,450	18,524	19,042	20,393	23,019	22,338
Marquette	44,076	47,144	47,654	56,154	64,686	74,101	72,440
Mason	18,756	19,378	20,474	21,929	22,612	26,365	26,435
Mecosta	15,738	16,902	18,968	21,051	27,992	36,961	37,229
Menominee	23,652	24,883	25,299	24,685	24,587	26,201	25,975
Midland	19,150	27,094	35,662	51,450	63,769	73,578	75,623
Missaukee	6,992	8,034	7,458	6,784	7,126	10,009	10,563
Monroe	52,485	58,620	75,666	101,120	119,215	134,659	130,998
Montcalm	27,471	28,581	31,013	35,795	39,660	47,555	49,757
Montmorency	2,814	3,840	4,125	4,424	5,247	7,492	7,760
Muskegon	84,630	94,501	121,545	149,943	157,426	157,589	155,688
Newaygo	17,029	19,286	21,567	24,160	27,992	34,917	36,238
Oakland	211,251	254,068	396,001	690,259	907,871	1,011,793	1,004,884
Oceana	13,805	14,812	16,105	16,547	17,984	22,002	21,994
Ogemaw	6,595	8,720	9,345	9,680	11,903	16,436	17,437
Ontonagon	11,114	11,359	10,282	10,584	10,548	9,861	9,685
Osceola	12,806	13,309	13,797	13,595	14,838	18,928	20,086
Oscoda	1,728	2,543	3,134	3,447	4,726	6,858	6,912
Otsego	5,554	5,827	6,435	7,545	10,422	14,993	15,345
Ottawa	54,858	59,660	73,751	98,719	128,181	157,174	164,658
Presque Isle	11,330	12,250	11,996	13,117	12,836	14,267	13,887
Roscommon	2,055	3,668	5,916	7,200	9,892	16,374	18,137
Saginaw	120,717	130,468	153,515	190,752	219,743	228,059	219,059
St. Clair	67,563	76,222	91,599	107,201	120,175	138,802	137,954
St. Joseph	30,618	31,749	35,071	42,332	47,392	56,083	57,715

TABLE I-3. POPULATION OF MICHIGAN COUNTIES: CENSUS 1930, 1940, 1950, 1960, 1970, 1980; AND 1 JULY 1984 ESTIMATES (cont.)

County	1930	1940	1950	1960	1970	1980	Preliminary[a] July 1, 1984 estimates
Sanilac	27,751	30,114	30,837	32,314	35,181	40,789	40,127
Schoolcraft	8,451	9,524	9,148	8,953	8,226	8,575	8,453
Shiawassee	39,517	41,207	45,967	53,446	63,075	71,140	68,587
Tuscola	32,934	35,694	38,258	43,305	48,603	56,961	55,278
Van Buren	32,637	35,111	39,184	48,395	56,173	66,814	66,534
Washtenaw	65,530	80,810	134,606	172,440	234,103	264,748	261,377
Wayne	1,888,946	2,015,623	2,435,235	2,666,297	2,670,368	2,337,891	2,186,064
Wexford	16,827	17,976	18,628	18,466	19,717	25,102	26,154
TOTAL	4,842,325	5,256,106	6,371,766	7,823,194	8,881,826	9,262,078	9,074,622

SOURCE: Bureau of the Census, U.S. Census of Population: 1940, Number of Inhabitants, Michigan (Washington, D.C.: 1941), Table 5, U.S. Census of Population: 1950, Number of Inhabitants, (Washington, D.C.: 1951), Table 5,; U.S. Census of Population: 1960, Number of Inhabitants, Michigan (Washington, D.C.: 1961), Table 6, and U.S. Census of Population: 1970, Number of Inhabitants, Michigan (Washington, D.C.: 1971), Table 9; and Bureau of the Census, 1980 Census of Population, Number of Inhabitants (Washington, D.C.: 1982, Table 2; and Budget, Information System Division, special release; and Michigan Department of Management and Budget, special release.

a. The preliminary estimates are subject to change when more data become available.

TABLE I-4. COMPONENTS OF POPULATION CHANGE IN MICHIGAN, BY COUNTY: CENSUS 1970 TO CENSUS 1980 AND 1 JULY 1984 ESTIMATES

	1970 to 1980				1980 to Preliminary 1 July 1984 estimates[a]			
County	Population change	Births[b]	Deaths	Net migration	Population change	Births[b]	Deaths	Net migration
Alcona	2,627	1,026	1,146	2,747	110	457	527	180
Alger	657	1,322	1,033	368	-399	593	442	-550
Allegan	14,980	12,286	6,038	8,732	2,669	5,759	2,693	-397
Alpena	1,607	4,885	2,700	578	-907	2,015	1,198	-1,724
Antrim	3,582	2,268	1,647	2,961	598	1,020	765	343
Arenac	3,557	2,060	1,421	2,918	454	953	712	213
Baraga	695	1,323	1,004	376	-158	501	460	-199
Barry	7,615	6,409	3,589	4,795	689	2,900	1,481	-730
Bay	2,542	19,183	9,706	-6,935	-2,703	7,576	4,054	-6,225
Benzie	2,612	1,427	1,221	2,406	-64	734	523	-275
Berrien	7,336	29,338	15,414	6,588	-8,247	11,046	6,279	-13,014
Branch	2,282	6,021	3,784	45	-1,478	2,832	1,567	-2,743
Calhoun	-406	22,600	12,946	-10,060	-3,759	8,874	5,390	-7,243
Cass	6,187	7,137	4,058	3,108	-1,685	2,925	1,741	-2,869
Charlevoix	3,366	2,907	1,859	2,318	-198	1,420	825	-793
Cheboygan	4,076	3,052	2,004	3,028	260	1,420	885	-275
Chippewa	-3,383	6,379	2,957	-6,805	-210	1,683	1,243	-650
Clare	7,127	2,872	2,353	6,608	927	1,514	1,147	560
Clinton	7,401	8,185	3,229	2,445	-609	3,719	1,301	-3,027
Crawford	2,983	1,293	853	2,543	360	753	400	7
Delta	3,023	5,993	4,055	1,085	503	2,518	1,523	-492
Dickinson	1,588	3,305	3,066	1,349	522	1,589	1,287	220
Eaton	19,445	11,307	5,065	13,203	955	5,254	2,318	-1,981
Emmet	4,661	3,183	2,028	3,506	618	1,472	930	76
Genesee	4,860	78,036	32,681	-40,495	-16,301	30,172	14,135	-32,338

TABLE I-5. DISTRIBUTION OF THE MICHIGAN POPULATION BY AGE AND SEX: CENSUS 1980

	Male		Female		Total		U.S.
Age category	Number	Percentage	Number	Percentage	Number	Percentage	Percentage
Under 5	350,158	3.8	334,955	3.6	685,113	7.4	7.2
5 - 9	372,134	4.0	354,986	3.8	727,120	7.8	7.4
10 - 14	409,805	4.4	392,069	4.2	801,874	8.6	8.1
15 - 19	455,211	4.9	446,066	4.8	901,277	9.7	9.2
20 - 24	441,426	4.8	453,004	4.9	894,430	9.7	9.3
25 - 29	399,270	4.3	407,648	4.4	806,918	8.7	8.6
30 - 34	348,315	3.8	360,054	3.9	708,369	7.7	7.8
35 - 39	277,801	3.0	286,626	3.1	564,427	6.1	6.2
40 - 44	226,920	2.4	237,652	2.6	464,572	5.0	5.2
45 - 49	215,594	2.3	229,920	2.5	445,514	4.8	4.9
50 - 54	236,446	2.6	248,971	2.7	485,417	5.3	5.2
55 - 59	225,704	2.4	245,707	2.7	471,411	5.1	5.1
60 - 64	183,822	1.9	209,556	2.3	393,378	4.2	4.5
65 - 69	144,133	1.6	175,268	1.9	319,381	3.5	3.9
70 - 74	100,502	1.1	136,627	1.5	237,129	2.6	3.0
75 - 79	66,767	.7	102,446	1.1	159,213	1.8	2.1
80 - 84	36,894	.4	67,988	.7	104,882	1.1	1.3
85 and over	25,307	.3	56,346	.6	81,653	.9	1.0
Median age	27.8		29.8		28.8		

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF2, computer tape.

TABLE I-6. PERCENTAGE OF POPULATION 65 AND OVER FOR MICHIGAN COUNTIES: CENSUS 1970 AND 1980

County	Percentage		County	Percentage	
	1970	1980		1970	1980
Alcona	17.1	20.56	Lake	20.6	21.09
Alger	11.1	13.02	Lapeer	7.7	7.14
Allegan	9.4	10.29	Leelanau	12.2	13.31
Alpena	8.5	11.76	Lenawee	9.2	10.20
Antrim	13.9	15.09	Livingston	7.7	7.02
Arenac	12.5	13.89	Luce	13.6	13.70
Baraga	12.9	15.33	Mackinac	12.2	15.01
Barry	10.1	10.12	Macomb	4.8	7.70
Bay	8.1	10.11	Manistee	13.5	15.55
Benzie	14.3	14.76	Marquette	8.0	8.83
Berrien	9.2	10.96	Mason	13.1	14.90
Branch	10.3	11.79	Mecosta	8.7	9.06
Calhoun	9.4	11.26	Menominee	13.1	14.14
Cass	9.8	10.92	Midland	5.4	7.28
Charlevoix	11.4	12.23	Missaukee	12.9	12.46
Cheboygan	11.8	13.97	Monroe	7.4	8.38
Chippewa	8.3	12.42	Montcalm	11.2	12.17
Clare	13.2	15.42	Montmorency	15.8	17.79
Clinton	6.9	7.55	Muskegon	8.5	10.70
Crawford	10.9	12.54	Newaygo	11.6	13.09
Delta	11.6	12.69	Oakland	6.6	8.87
Dickinson	15.8	16.84	Oceana	11.8	12.35
Eaton	7.1	7.95	Ogemaw	15.0	15.25
Emmet	12.1	12.53	Ontonagon	9.8	15.94
Genesee	6.5	7.96	Osceola	12.1	13.19
Gladwin	12.9	14.29	Oscoda	17.0	17.67
Gogebic	16.3	20.72	Otsego	9.5	10.90
Grand Traverse	10.9	10.75	Ottawa	7.6	8.72
Gratiot	10.1	11.68	Presque Isle	11.6	15.02
Hillsdale	11.3	12.26	Roscommon	17.2	19.45
Houghton	13.7	15.96	Saginaw	7.7	9.21
Huron	12.8	15.11	St. Clair	9.9	10.67
Ingham	6.8	7.44	St. Joseph	11.0	11.94
Ionia	9.7	9.62	Sanilac	12.0	13.91
Iosco	9.7	13.47	Schoolcraft	13.7	15.39
Iron	16.6	21.90	Shiawassee	8.1	8.68
Isabella	6.4	7.07	Tuscola	9.0	9.63
Jackson	9.2	9.93	Van Buren	11.6	12.17
Kalamazoo	7.7	8.90	Washtenaw	5.8	6.37
Kalkaska	14.6	11.65	Wayne	9.4	10.47
Kent	9.3	10.22	Wexford	12.1	13.17
Keweenaw	14.8	27.66	MICHIGAN	8.5	9.85

SOURCE: Bureau of the Census, tapes.

TABLE I-7. PERCENTAGE OF POPULATION 17 AND UNDER FOR MICHIGAN COUNTIES: CENSUS 1970 AND 1980

County	Percentage		County	Percentage	
	1970	1980		1970	1980
Alcona	32.7	26.09	Lake	32.3	26.69
Alger	36.9	30.12	Lapeer	40.1	35.68
Allegan	38.9	31.99	Leelanau	36.4	28.51
Alpena	40.7	30.79	Lenawee	36.5	31.31
Antrim	36.6	29.42	Livingston	40.2	34.36
Arenac	37.4	30.67	Luce	33.0	29.16
Baraga	35.6	30.96	Mackinac	38.6	29.89
Barry	37.0	31.46	Macomb	40.8	29.87
Bay	38.6	30.56	Manistee	35.7	27.89
Benzie	35.0	28.83	Marquette	33.7	28.04
Berrien	36.5	30.76	Mason	34.8	27.95
Branch	36.3	29.99	Mecosta	28.8	23.35
Calhoun	35.1	28.89	Menominee	36.3	30.13
Cass	36.2	30.72	Midland	41.2	32.20
Charlevoix	38.0	30.09	Misaukee	37.3	32.23
Cheboygan	38.3	30.50	Monroe	40.2	33.33
Chippewa	37.3	27.65	Montcalm	37.2	31.73
Clare	36.1	28.93	Montmorency	34.1	27.68
Clinton	41.6	34.46	Muskegon	39.0	30.74
Crawford	38.4	30.78	Newaygo	38.8	31.55
Delta	37.7	31.22	Oakland	37.7	28.65
Dickinson	33.4	27.02	Oceana	38.1	32.38
Eaton	39.4	31.54	Ogemaw	35.5	29.09
Emmet	36.7	29.21	Ontonagon	38.2	30.17
Genesee	39.8	32.15	Osceola	37.3	31.78
Gladwin	36.3	29.48	Oscoda	33.3	28.05
Gogebic	31.0	24.58	Otsego	39.8	32.73
Grand Traverse	34.8	29.35	Ottawa	39.6	31.86
Gratiot	37.6	31.21	Presque Isle	38.6	29.78
Hillsdale	35.8	30.35	Roscommon	30.2	24.40
Houghton	28.4	22.94	Saginaw	39.9	32.56
Huron	37.7	30.36	St. Clair	37.7	31.83
Ingham	32.6	26.20	St. Joseph	35.5	30.64
Ionia	37.7	31.82	Sanilac	38.2	31.25
Iosco	36.7	28.64	Schoolcraft	36.9	29.50
Iron	29.9	23.63	Shiawassee	39.9	33.74
Isabella	32.0	24.78	Tuscola	39.5	33.41
Jackson	35.9	29.13	Van Buren	37.3	31.65
Kalamazoo	34.0	26.71	Washtenaw	30.0	24.24
Kalkaska	36.8	32.74	Wayne	34.9	29.33
Kent	37.3	29.58	Wexford	37.3	30.55
Keweenaw	26.2	20.63	MICHIGAN	36.6	29.71

SOURCE: Bureau of the Census, tapes.

TABLE I-8. PERCENTAGE OF POPULATION THAT WAS BLACK OR OF SPANISH ORIGIN IN MICHIGAN COUNTIES: CENSUS 1980

	Percentage			Percentage	
County	Black	Spanish	County	Black	Spanish
Alcona	.0	.5	Lake	16.6	.6
Alger	.5	.3	Lapeer	.2	1.8
Allegan	1.8	2.4	Leelanau	.1	.5
Alpena	.0	.2	Lenawee	.8	5.0
Antrim	.0	.4	Livingston	.4	.7
Arenac	.0	1.0	Luce	.0	.2
Baraga	.6	.4	Mackinac	.0	.2
Barry	.1	.9	Macomb	1.3	.9
Bay	.8	2.6	Manistee	.2	1.3
Benzie	.3	.9	Marquette	1.7	.6
Berrien	14.4	1.2	Mason	.6	1.4
Branch	.1	.5	Mecosta	2.1	.5
Calhoun	9.5	1.7	Menominee	.0	.2
Cass	8.3	.6	Midland	.7	1.1
Charlevoix	.0	.3	Missaukee	.0	.2
Cheboygan	.0	.2	Monroe	1.7	1.3
Chippewa	1.2	.3	Montcalm	.2	1.2
Clare	.0	.4	Montmorency	.0	.5
Clinton	.3	1.7	Muskegon	12.1	1.7
Crawford	.5	.5	Newaygo	1.5	1.9
Delta	.0	.2	Oakland	4.7	1.4
Dickinson	.0	.1	Oceana	.1	5.1
Eaton	2.2	1.8	Ogemaw	.0	.3
Emmet	.4	.2	Ontonagon	.0	.1
Genesee	17.4	1.6	Osceola	.0	.5
Gladwin	.0	.5	Oscoda	.0	.1
Gogebic	.6	.3	Otsego	.0	.3
Grand Traverse	.2	.5	Ottawa	.4	3.1
Gratiot	.0	3.2	Presque Isle	.0	.2
Hillsdale	.2	.7	Roscommon	.0	.3
Houghton	.2	.3	Saginaw	15.7	5.4
Huron	.0	1.0	St. Clair	2.0	1.4
Ingham	7.7	3.8	St. Joseph	2.4	.6
Ionia	3.1	1.7	Sanilac	.0	2.1
Iosco	2.3	.9	Schoolcraft	.0	.2
Iron	.0	.1	Shiawassee	.0	1.1
Isabella	.9	1.2	Tuscola	.5	1.7
Jackson	7.1	1.1	Van Buren	7.5	2.2
Kalamazoo	7.4	1.2	Washtenaw	10.6	1.5
Kalkaska	.0	.4	Wayne	35.5	1.9
Kent	7.0	1.9	Wexford	.0	.5
Keweenaw	.4	.3	MICHIGAN	12.9	1.7

SOURCE: Bureau of the Census, 1980 Census of Population and Housing.

9. NUMBER OF PERSONS OF SPANISH ORIGIN IN MICHIGAN, BY RACE AND COUNTY: CENSUS 1980

County	White	Black	American Indian	Asian and Pacific Islander	Other
Alcona	39	0	0	5	5
Alger	25	0	6	0	5
Allegan	914	21	22	15	1,039
Alpena	59	2	1	0	17
Antrim	50	0	1	0	14
Arenac	100	0	2	2	56
Baraga	27	2	2	0	6
Barry	251	0	8	3	158
Bay	1,525	12	55	13	1,557
Benzie	76	0	2	0	27
Berrien	1,186	223	32	31	616
Branch	170	2	0	3	48
Calhoun	1,263	108	17	16	1,029
Cass	193	36	7	12	89
Charlevoix	46	0	6	1	9
Cheboygan	46	0	1	2	11
Chippewa	65	0	3	0	23
Clare	77	0	5	0	14
Clinton	546	3	5	0	437
Crawford	38	0	0	0	11
Delta	82	0	9	0	12
Dickinson	41	0	1	1	3
Eaton	932	20	17	7	640
Emmet	37	1	2	6	11
Genesee	3,610	604	111	73	3,251
Gladwin	102	0	1	4	10
Gogebic	50	0	1	0	9
Grand Traverse	217	0	4	6	70
Gratiot	599	1	3	3	715
Hillsdale	221	0	1	3	82
Houghton	98	1	1	3	24
Huron	223	0	3	6	164
Ingham	4,724	278	120	64	5,373
Ionia	472	32	18	9	376
Iosco	154	5	5	9	86
Iron	17	0	0	0	5
Isabella	352	8	36	4	262
Jackson	926	110	12	7	752
Kalamazoo	1,340	134	23	34	1,074
Kalkaska	44	0	1	0	9

TABLE I-9. NUMBER OF PERSONS OF SPANISH ORIGIN IN MICHIGAN, BY RACE AND COUNTY: CENSUS 1980 (cont.)

County	White	Black	American Indian	Asian and Pacific Islander	Other
Kent	4,140	392	128	55	4,026
Keweenaw	6	0	0	0	0
Lake	33	4	0	0	13
Lapeer	676	7	4	6	632
Leelanau	47	0	0	0	25
Lenawee	2,438	367	23	4	2,072
Livingston	596	2	15	3	165
Luce	13	0	3	0	0
Mackinac	22	0	5	0	3
Macomb	5,044	81	100	228	1,185
Manistee	213	1	9	6	87
Marquette	338	7	12	12	120
Mason	193	1	7	3	166
Mecosta	155	3	2	2	40
Menominee	50	0	0	1	7
Midland	544	13	5	4	244
Missaukee	22	0	3	0	1
Monroe	1,123	16	9	9	646
Montcalm	304	0	17	1	259
Montmorency	41	0	0	1	2
Muskegon	1,467	136	83	18	1,129
Newaygo	339	0	8	1	332
Oakland	9,262	333	171	346	4,366
Oceana	338	0	16	1	777
Ogemaw	49	0	0	0	4
Ontonagon	15	0	0	0	1
Osceola	92	0	1	2	11
Oscoda	5	0	1	0	4
Otsego	41	0	1	0	7
Ottawa	2,644	5	30	18	2,309
Presque Isle	31	0	0	4	3
Roscommon	51	0	1	2	10
Saginaw	4,493	301	165	65	7,332
St. Clair	1,132	43	25	10	856
St. Joseph	262	22	7	4	91

TABLE I-9. NUMBER OF PERSONS OF SPANISH ORIGIN IN MICHIGAN, BY RACE AND COUNTY: CENSUS 1980 (cont.)

County	White	Black	American Indian	Asian and Pacific Islander	Other
Sanilac	392	0	5	0	464
Schoolcraft	19	0	0	0	1
Shiawassee	535	0	15	4	264
Tuscola	563	3	4	6	430
Van Buren	603	36	16	4	840
Washtenaw	2,579	205	34	105	1,132
Wayne	24,766	5,091	455	729	15,277
Wexford	103	0	4	0	27
TOTAL	86,716	8,341	1,928	1,996	63,459

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF1, computer tape.

TABLE I-4. COMPONENTS OF POPULATION CHANGE IN MICHIGAN, BY COUNTY: CENSUS 1970 TO CENSUS 1980 AND 1 JULY 1984 ESTIMATES (cont.)

County	1970 to 1980				1980 to Preliminary 1 July 1984 estimates[a]			
	Population change	Births[b]	Deaths	Net migration	Population change	Births[b]	Deaths	Net migration
Gladwin	6,486	2,387	1,754	5,853	1,330	1,279	857	908
Gogebic	-990	2,513	3,041	-462	-367	929	1,177	-119
Grand Traverse	15,724	7,440	3,910	12,194	2,140	3,886	1,882	136
Gratiot	1,202	6,740	3,579	-1,959	-766	2,629	1,695	-1,700
Hillsdale	4,900	6,214	3,655	2,341	-393	2,651	1,614	-1,430
Houghton	3,220	5,033	4,755	2,942	237	2,175	1,814	-124
Huron	2,376	5,626	4,105	855	-457	2,386	1,637	-1,206
Ingham	14,481	44,506	16,522	-13,503	-3,849	18,662	6,931	-15,580
Ionia	5,967	8,434	4,199	1,732	565	3,884	1,695	-1,624
Iosco	3,444	5,487	2,566	523	1,885	2,404	1,222	703
Iron	-178	1,529	2,109	402	380	737	846	489
Isabella	9,516	7,162	3,013	5,367	459	3,063	1,300	-1,304
Jackson	8,221	22,559	12,712	-1,626	-6,181	9,045	5,413	-9,813
Kalamazoo	10,828	30,173	13,922	-5,423	2,859	13,457	6,287	-4,311
Kalkaska	5,580	1,519	913	4,974	548	922	422	48
Kent	33,462	70,882	34,662	-2,758	17,212	35,502	14,806	-3,484
Keweenaw	-301	271	352	-220	108	97	160	171
Lake	2,050	970	1,102	2,182	714	469	499	744
Lapeer	17,677	10,432	4,447	11,691	-999	4,606	1,952	-3,653
Leelanau	3,135	1,627	1,225	2,733	374	846	537	65
Lenawee	7,997	14,657	7,277	617	-1,753	5,757	3,029	-4,481
Livingston	41,322	11,569	5,001	34,754	345	5,911	2,466	-3,100
Luce	-130	1,024	738	-416	-690	385	284	-791
Mackinac	518	1,455	1,148	211	60	615	504	-51
Macomb	69,291	96,355	40,065	13,001	-8,439	39,588	20,600	-27,427

TABLE I-4. COMPONENTS OF POPULATION CHANGE IN MICHIGAN, BY COUNTY: CENSUS 1970 TO CENSUS 1980 AND 1 JULY 1984 ESTIMATES (cont.)

	1970 to 1980				1980 to Preliminary 1 July 1984 estimates[a]			
County	Population change	Births[b]	Deaths	Net migration	Population change	Births[b]	Deaths	Net migration
Manistee	2,626	2,903	2,626	2,349	-681	1,205	1,107	-779
Marquette	9,415	12,781	5,380	2,014	-1,661	5,370	2,079	-4,952
Mason	3,753	3,493	2,604	2,864	70	1,683	1,217	-396
Mecosta	8,969	4,680	2,446	6,735	268	1,870	1,051	-551
Menominee	1,614	3,538	2,820	896	-226	1,696	1,215	-707
Midland	9,809	11,222	4,001	2,588	2,045	4,890	1,873	-972
Missaukee	2,883	1,443	885	2,325	554	838	382	98
Monroe	15,444	20,130	8,970	4,284	-3,661	8,059	3,942	-7,778
Montcalm	7,895	7,574	4,420	4,741	2,202	3,391	1,880	691
Montmorency	2,245	947	841	2,139	260	439	417	226
Muskegon	163	25,745	13,599	-11,983	-1,901	10,774	5,762	-6,913
Newaygo	6,925	5,024	3,142	5,043	1,321	2,347	1,374	348
Oakland	103,922	137,088	65,304	32,138	-6,909	58,399	30,943	-34,365
Oceana	4,018	3,473	2,077	2,622	-8	1,624	831	-801
Ogemaw	4,533	2,114	1,834	4,253	1,001	1,131	852	722
Ontonagon	-687	1,590	1,227	-1,050	-176	496	477	-195
Osceola	4,090	2,901	1,852	3,041	1,158	1,339	749	568
Oscoda	2,132	762	781	2,151	54	478	408	-16
Otsego	4,571	2,205	1,067	3,430	352	1,119	607	-160
Ottawa	28,993	23,300	9,110	14,800	7,484	11,575	4,132	41
Presque Isle	1,431	2,056	1,342	717	-380	882	660	-602
Roscommon	6,482	1,690	1,838	6,630	1,763	962	965	1,766
Saginaw	8,316	39,289	17,738	-13,235	-9,000	15,144	7,169	-16,975
St. Clair	18,627	20,861	12,350	10,116	-848	8,618	5,112	-4,354
St. Joseph	8,691	8,866	4,948	4,773	1,632	3,897	2,117	-148

TABLE I-4. COMPONENTS OF POPULATION CHANGE IN MICHIGAN, BY COUNTY: CENSUS 1970 TO CENSUS 1980 AND 1 JULY 1984 ESTIMATES (cont.)

	1970 to 1980				1980 to Preliminary 1 July 1984 estimates[a]			
County	Population change	Births[b]	Deaths	Net migration	Population change	Births[b]	Deaths	Net migration
Sanilac	5,608	6,070	4,085	3,623	-662	2,698	1,686	-1,674
Schoolcraft	349	1,301	1,109	157	-122	520	420	-222
Shiawassee	8,065	11,780	5,189	1,474	-2,553	4,575	2,113	-5,015
Tuscola	8,358	8,846	4,495	4,007	-1,683	3,592	1,878	-3,397
Van Buren	10,641	10,401	5,928	6,168	-280	4,633	2,564	-2,349
Washtenaw	30,645	37,715	13,067	5,997	-3,371	16,338	6,046	-13,663
Wayne	-332,477	404,359	247,901	-488,935	-151,827	143,437	96,057	-199,207
Wexford	5,385	3,687	2,362	4,060	1,052	1,778	1,085	359
TOTAL	380,252	1,440,182	759,956	-299,974	-187,456	587,401	322,625	-452,232

SOURCE: Michigan Department of Management and Budget, Information System Division, special release.

a. The preliminary estimates are subject to change when more symptomatic data become available.
b. Corrected for underregistration.

TABLE I-10. PERCENTAGE OF POPULATION IN NON-FAMILY HOUSEHOLDS AND IN GROUP QUARTERS IN MICHIGAN COUNTIES: CENSUS 1980

	Percentage living in			Percentage living in	
County	Non-family households	Group quarters	County	Non-family households	Group quarters
Alcona	10.1	.8	Lake	11.9	.0
Alger	9.7	1.9	Lapeer	5.9	2.2
Allegan	7.8	1.3	Leelanau	10.4	.7
Alpena	8.8	1.2	Lenawee	8.4	2.8
Antrim	8.8	.9	Livingston	6.6	1.5
Arenac	7.9	.6	Luce	9.3	8.1
Baraga	10.3	3.0	Mackinac	10.0	.8
Barry	7.3	1.4	Macomb	7.8	.6
Bay	9.4	.8	Manistee	10.8	1.0
Benzie	9.2	.8	Marquette	12.2	7.2
Berrien	9.9	1.5	Mason	10.2	1.9
Branch	9.6	2.5	Mecosta	17.3	14.6
Calhoun	11.3	2.9	Menominee	9.4	1.0
Cass	6.5	2.4	Midland	8.7	2.2
Charlevoix	9.9	.8	Missaukee	6.8	.2
Cheboygan	8.4	.6	Monroe	6.8	.9
Chippewa	10.9	6.4	Montcalm	8.9	.7
Clare	9.5	.8	Montmorency	9.4	.0
Clinton	6.7	.3	Muskegon	9.4	1.8
Crawford	8.9	2.4	Newaygo	8.4	.7
Delta	9.4	.9	Oakland	10.3	1.0
Dickinson	10.5	1.4	Oceana	7.8	1.2
Eaton	9.4	1.2	Ogemaw	9.2	1.5
Emmet	11.7	2.7	Ontonagon	9.5	1.6
Genesee	9.8	.8	Osceola	8.3	1.0
Gladwin	8.5	.4	Oscoda	9.7	1.6
Gogebic	12.3	2.8	Otsego	8.1	2.5
Grand Traverse	12.4	3.6	Ottawa	7.5	2.4
Gratiot	8.5	4.2	Presque Isle	8.4	.8
Hillsdale	8.9	2.7	Roscommon	11.1	.8
Houghton	19.0	9.5	Saginaw	8.9	1.3
Huron	8.7	1.4	St. Clair	8.9	.5
Ingham	18.8	7.6	St. Joseph	9.1	.8
Ionia	8.3	6.7	Sanilac	7.8	1.1
Iosco	9.4	3.6	Schoolcraft	9.3	1.4
Iron	11.5	2.3	Shiawassee	7.5	.6
Isabella	20.7	13.0	Tuscola	7.1	2.0
Jackson	10.0	5.2	Van Buren	9.2	.9
Kalamazoo	15.8	5.1	Washtenaw	20.7	8.0
Kalkaska	8.4	.4	Wayne	11.8	1.2
Kent	11.4	2.6	Wexford	9.5	.9
Keweenaw	13.8	.2	MICHIGAN	10.8	2.1

SOURCE: Bureau of the Census, 1980 Census of Population and Housing.

TABLE I-11. IN-MIGRATION, OUT-MIGRATION, AND NET MIGRATION STREAMS BETWEEN MICHIGAN AND OTHER STATES: 1975-1980: CENSUS 1980

Regions, States	In-migration from	Out-migration to	Net migration stream
Regions:			
Northeast	64,192	57,801	6,391
North Central	177,204	174,317	2,887
South	133,753	285,598	-151,845
West	65,064	169,451	-104,387
Northeast:			
New England	15,966	18,469	-2,503
Middle Atlantic	48,226	39,332	8,894
North Central:			
East North Central	149,057	134,027	15,030
West North Central	28,147	40,290	-12,143
South:			
South Atlantic	75,141	160,387	-85,246
East South Central	32,011	55,319	-23,308
West South Central	26,601	69,892	-43,291
West:			
Mountain	21,223	69,206	-47,983
Pacific	43,841	100,245	-56,404
New England:			
Maine	1,938	1,634	304
New Hampshire	864	1,606	-742
Vermont	464	921	-457
Massachusetts	6,752	7,944	-1,192
Rhode Island	969	1,011	-42
Connecticut	4,979	5,353	-374
Middle Atlantic:			
New York	22,763	18,250	4,513
New Jersey	9,243	8,177	1,066
Pennsylvania	16,220	12,905	3,315
East North Central:			
Ohio	56,454	45,524	10,930
Indiana	31,259	30,769	490
Illinois	44,206	36,589	7,617
Wisconsin	17,138	21,145	-4,007
West North Central:			
Minnesota	6,551	11,008	-4,457
Iowa	4,786	5,538	-752
Missouri	8,870	12,195	-3,325
North Dakota	1,080	1,453	-373
South Dakota	784	1,267	-483
Nebraska	2,424	3,408	-984
Kansas	3,652	5,421	-1,769

TABLE I-11. IN-MIGRATION, OUT-MIGRATION, AND NET MIGRATION STREAMS BETWEEN MICHIGAN AND OTHER STATES: 1975-1980: CENSUS 1980 (cont.)

Regions, States	In-migration from	Out-migration to	Net migration stream
South Atlantic:			
Delaware	1,285	929	356
Maryland	7,249	6,137	1,112
District of Columbia	1,413	1,585	-172
Virginia	11,054	14,990	-3,936
West Virginia	3,548	4,396	-848
North Carolina	8,816	13,090	-4,274
South Carolina	3,413	8,271	-4,858
Georgia	7,698	15,743	-8,045
Florida	30,665	95,246	-64,581
East South Central:			
Kentucky	9,504	17,820	-8,316
Tennessee	9,305	21,056	-11,751
Alabama	7,656	11,354	-3,698
Mississippi	5,546	5,089	457
West South Central:			
Arkansas	4,818	8,521	-3,703
Louisiana	3,076	6,312	-3,236
Oklahoma	3,067	8,005	-4,938
Texas	15,640	47,054	-31,414
Mountain:			
Montana	994	1,919	-925
Idaho	789	2,399	-1,610
Wyoming	848	2,529	-1,681
Colorado	7,637	18,735	-11,098
New Mexico	1,732	4,066	-2,334
Arizona	6,284	31,498	-25,214
Utah	1,767	2,961	-1,194
Nevada	1,172	5,099	-3,927
Pacific:			
Washington	4,283	11,284	-7,001
Oregon	2,175	6,087	-3,912
California	32,906	76,795	-43,889
Alaska	2,296	2,735	-439
Hawaii	2,181	3,344	-1,163
Abroad	77,831	-	77,831
TOTAL	518,044	687,167	-169,123

SOURCE: U.S. Bureau of the Census: "State of Residence in 1975 by State of Residence in 1980." Supplementary Report, 1980 Census of Population, PC80-S1-9, March 1983.

TABLE I-12. PERCENTAGE OF PERSONS LIVING IN THE SAME HOUSE OR IN A DIFFERENT HOUSE IN THE SAME COUNTY FIVE YEARS EARLIER: CENSUS 1980

County	Percentage living in		County	Percentage living in	
	Same house	Different house same county		Same house	Different house same county
Alcona	58.5	12.8	Lake	58.5	11.2
Alger	58.3	24.1	Lapeer	54.3	20.0
Allegan	59.3	20.5	Leelanau	56.6	14.6
Alpena	60.9	25.5	Lenawee	55.8	28.3
Antrim	58.7	15.8	Livingston	47.7	17.5
Arenac	58.6	18.3	Luce	59.6	20.4
Baraga	62.3	20.5	Mackinac	58.9	21.1
Barry	57.1	19.9	Macomb	59.8	21.9
Bay	61.8	28.5	Manistee	64.5	19.0
Benzie	54.9	18.1	Marquette	45.8	24.0
Berrien	56.4	29.1	Mason	58.4	22.8
Branch	57.3	25.4	Mecosta	41.3	15.5
Calhoun	57.1	28.3	Menominee	68.1	17.9
Cass	61.9	18.4	Midland	52.8	24.7
Charlevoix	55.7	21.1	Missaukee	57.4	16.4
Cheboygan	59.6	17.8	Monroe	59.5	22.2
Chippewa	54.4	22.4	Montcalm	59.9	20.2
Clare	55.1	15.4	Montmorency	55.7	17.0
Clinton	61.7	15.5	Muskegon	60.3	28.4
Crawford	53.9	17.6	Newaygo	60.1	18.5
Delta	61.5	25.1	Oakland	52.9	25.0
Dickinson	65.8	20.2	Oceana	61.0	20.5
Eaton	51.3	18.2	Ogemaw	60.6	14.2
Emmet	52.1	23.4	Ontonagon	70.8	17.2
Genesee	57.3	32.4	Osceola	57.5	19.9
Gladwin	55.2	15.9	Oscoda	55.8	12.7
Gogebic	70.0	17.9	Otesgo	50.4	24.0
Grand Traverse	44.2	22.6	Ottawa	56.2	21.9
Gratiot	60.7	22.1	Presque Isle	68.3	17.0
Hillsdale	56.5	23.7	Roscommon	49.1	17.5
Houghton	54.7	15.6	Saginaw	60.4	29.3
Huron	66.4	19.6	St. Clair	57.0	24.9
Ingham	42.3	27.2	St. Joseph	60.0	26.7
Ionia	57.8	20.2	Sanilac	63.2	18.8
Iosco	44.2	14.9	Schoolcraft	57.3	25.7
Iron	68.2	14.2	Shiawassee	60.0	21.9
Isabella	41.5	19.9	Tuscola	61.5	21.3
Jackson	55.5	27.6	Van Buren	54.9	23.2
Kalamazoo	47.5	28.9	Washtenaw	39.9	24.8
Kalkaska	48.7	18.4	Wayne	60.0	30.7
Kent	54.0	30.7	Wexford	56.5	21.5
Keweenaw	68.1	4.8	MICHIGAN	56.4	26.2

SOURCE: Bureau of the Census, 1980 Census of Population and Housing.

II. HOUSING

The U.S. Census of Housing is conducted on the occasion of the official population census. Since housing units must be located for the population count in any case, they also are counted at this time.

Each household is asked to answer several questions pertaining to its living quarters and these are the basis for the structural characteristics of housing units. Other data, such as number of housing units with Black head of household, are by-products of the population census.

Reliable interim data on housing for states and their political subdivisions are not available on a regular basis. Selected statistics for U.S. regions are published regularly by the U.S. Bureau of the Census in its Current Housing Reports series.

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TABLE I-13. DISTRIBUTION OF MICHIGAN HOUSEHOLDS, BY TYPE AND COUNTY: CENSUS 1980

	Married-couple family				Single parent household with children				One person household		Other household type	
	With children		No children		Female head		Male head					
County	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alcona	1,044	28.1	1,520	40.9	143	3.8	46	1.2	759	20.4	92	2.4
Alger	1,136	34.6	1,023	31.1	152	4.6	37	1.1	711	21.6	81	2.4
Allegan	10,698	39.2	8,508	31.2	1,462	5.3	307	1.1	4,625	16.9	768	2.8
Alpena	4,056	36.3	3,386	30.3	690	6.1	113	1.0	2,237	20.0	250	2.2
Antrim	1,950	34.0	2,050	35.8	270	4.7	58	1.0	1,055	18.4	162	2.8
Arenac	1,781	34.9	1,764	34.5	264	5.1	48	.9	938	18.3	99	1.9
Baraga	999	34.1	867	29.6	139	4.7	32	1.0	695	23.7	67	2.2
Barry	6,119	39.6	5,067	32.8	787	5.0	182	1.1	2,508	16.2	360	2.3
Bay	14,993	36.2	11,827	28.6	2,556	6.1	419	1.0	8,721	21.0	1,102	2.6
Benzie	1,355	33.8	1,374	34.2	206	5.1	45	1.1	753	18.7	126	3.1
Berrien	19,243	31.9	17,888	29.6	5,574	9.2	650	1.0	12,836	21.2	1,718	2.8
Branch	4,853	34.6	4,404	31.4	904	6.4	197	1.4	2,799	19.9	417	2.9
Calhoun	15,766	30.8	15,151	29.6	4,270	8.3	641	1.2	11,606	22.7	1,745	3.4
Cass	6,206	36.0	5,522	32.0	1,048	6.0	223	1.2	3,159	18.3	441	2.5
Charlevoix	2,482	35.1	2,171	30.7	391	5.5	82	1.1	1,457	20.6	228	3.2
Cheboygan	2,544	34.9	2,437	33.4	388	5.3	76	1.0	1,385	19.0	162	2.2
Chippewa	3,206	32.2	3,049	30.7	615	6.1	103	1.0	2,196	22.1	343	3.4
Clare	2,672	30.7	3,208	36.9	511	5.8	96	1.1	1,700	19.5	241	2.7
Clinton	7,863	44.2	5,157	29.0	903	5.0	214	1.2	2,617	14.7	495	2.7
Crawford	1,130	34.0	1,097	33.0	215	6.4	46	1.3	656	19.7	77	2.3
Delta	5,057	37.2	3,948	29.0	718	5.2	128	.9	2,869	21.1	331	2.4
Dickinson	3,048	31.9	3,193	33.4	367	3.8	84	.8	2,253	23.6	166	1.7
Eaton	11,861	39.3	8,675	28.7	1,655	5.4	349	1.1	5,482	18.1	1,236	4.1
Emmet	2,719	33.5	2,384	29.4	429	5.2	79	.9	1,840	22.6	344	4.2
Genesee	52,651	34.0	39,614	25.6	16,615	10.7	2,290	1.4	31,487	20.3	5,439	3.5

TABLE I-13. DISTRIBUTION OF MICHIGAN HOUSEHOLDS, BY TYPE AND COUNTY: CENSUS 1980 (cont.)

County	Married-couple family				Single parent household with children				One person household		Other household type	
	With children		No children		Female head		Male head					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Gladwin	2,355	32.8	2,683	37.4	370	5.1	62	.8	1,358	18.9	149	2.0
Gogebic	1,994	26.3	2,584	34.0	270	3.5	71	.9	2,075	27.3	131	1.7
Grand Traverse	6,608	34.4	5,561	29.0	1,144	5.9	195	1.0	3,930	20.5	1,137	5.9
Gratiot	5,075	38.0	4,105	30.8	780	5.8	126	.9	2,544	19.1	317	2.3
Hillsdale	5,210	36.2	4,698	32.6	756	5.2	158	1.0	2,748	19.1	385	2.6
Houghton	3,366	25.9	3,861	29.7	512	3.9	87	.6	3,321	25.5	1,022	7.8
Huron	4,427	34.6	4,307	33.7	513	4.0	107	.8	2,724	21.3	189	1.4
Ingham	27,055	28.4	23,378	24.5	7,849	8.2	1,143	1.2	22,319	23.4	9,839	10.3
Ionia	6,402	39.4	4,565	28.1	1,071	6.5	193	1.1	2,981	18.3	457	2.8
Iosco	3,519	34.6	3,439	33.8	520	5.1	102	1.0	2,076	20.4	226	2.2
Iron	1,397	25.7	2,040	37.5	207	3.8	53	.9	1,391	25.6	70	1.2
Isabella	5,316	33.1	4,053	25.2	876	5.4	167	1.0	2,938	18.3	2,183	13.6
Jackson	17,606	34.5	15,081	29.5	3,688	7.2	637	1.2	10,324	20.2	1,746	3.4
Kalamazoo	22,511	29.8	20,758	27.5	5,493	7.2	835	1.1	17,218	22.[illegible]	5,889	7.8
Kalkaska	1,422	37.4	1,249	32.9	208	5.4	49	1.2	676	17.[illegible]	103	2.7
Kent	51,635	33.1	43,701	28.0	11,805	7.5	1,505	.9	34,004	21.8	6,848	4.4
Keweenaw	166	19.9	342	41.0	21	2.5	3	.3	228	27.3	17	2.0
Lake	735	24.0	1,165	38.1	157	5.1	41	1.3	768	25.1	68	2.2
Lapeer	10,166	47.9	5,560	26.2	1,221	5.7	266	1.2	2,859	13.4	530	2.4
Leelanau	1,701	33.8	1,757	34.9	159	3.1	57	1.1	939	18.6	231	4.5
Lenawee	11,387	37.9	9,148	30.4	1,781	5.9	340	1.1	5,528	18.3	810	2.6
Livingston	14,393	45.9	8,862	28.2	1,535	4.8	402	1.2	4,206	13.4	1,047	3.3
Luce	753	34.3	676	30.8	139	6.3	35	1.5	445	20.3	52	2.3
Mackinac	1,210	32.8	1,214	32.9	194	5.2	61	1.6	788	21.4	97	2.6
Macomb	88,760	38.6	68,277	29.7	13,248	5.7	2,423	1.0	39,494	17.1	6,612	2.8

TABLE I-13. DISTRIBUTION OF MICHIGAN HOUSEHOLDS, BY TYPE AND COUNTY: CENSUS 1980 (cont.)

	Married-couple family				Single parent household with children				One person household		Other household type	
	With children		No children		Female head		Male head					
County	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Manistee	2,695	31.7	2,752	32.4	378	4.4	80	.9	2,056	24.2	180	2.1
Marquette	9,194	37.7	6,700	27.3	1,163	4.7	247	1.0	4,853	19.7	1,442	5.8
Mason	3,135	32.3	3,318	34.2	444	4.5	101	1.0	2,140	22.0	232	2.3
Mecosta	3,473	31.1	3,429	30.7	580	5.2	99	.8	2,085	18.7	1,116	10.0
Menominee	3,313	35.6	2,876	30.9	363	3.9	90	.9	2,013	21.6	201	2.1
Midland	10,089	41.1	7,114	29.0	1,341	5.4	268	1.0	4,182	17.0	881	3.5
Missaukee	1,341	39.1	1,170	34.1	139	4.0	45	1.3	582	16.9	46	1.3
Monroe	18,467	42.8	12,010	27.8	2,603	6.0	637	1.4	6,794	15.7	1,014	2.3
Montcalm	5,931	35.8	5,336	32.2	974	5.8	179	1.0	3,203	19.3	426	2.5
Montmorency	835	29.6	1,123	39.9	123	4.3	37	1.3	552	19.6	68	2.4
Muskegon	18,022	33.0	15,909	29.1	5,078	9.3	638	1.1	11,275	20.6	1,508	2.7
Newaygo	4,445	36.6	3,978	32.7	605	4.9	130	1.0	2,365	19.4	249	2.0
Oakland	122,278	34.4	106,838	30.0	20,864	5.8	4,055	1.1	71,427	20.1	14,370	4.0
Oceana	2,837	38.2	2,378	32.0	385	5.1	68	.9	1,390	18.7	143	1.9
Ogemaw	1,915	32.2	2,102	35.3	306	5.1	88	1.4	1,193	20.0	141	2.3
Ontonagon	1,218	34.5	1,120	31.7	119	3.3	45	1.2	777	22.0	66	1.8
Osceola	2,386	36.3	2,127	32.4	346	5.2	75	1.1	1,293	19.7	121	1.8
Oscoda	765	30.3	965	38.3	115	4.5	30	1.1	508	20.1	66	2.6
Otsego	1,964	39.9	1,471	29.8	278	5.6	69	1.4	842	17.1	140	2.8
Ottawa	21,741	43.0	15,500	30.7	2,206	4.3	396	.7	7,645	15.1	1,588	3.1
Presque Isle	1,775	35.4	1,702	33.9	209	4.1	47	.9	1,002	20.0	81	1.6
Roscommon	1,609	24.6	2,772	42.5	332	5.0	52	.7	1,379	21.1	192	2.9
Saginaw	27,062	35.5	20,344	26.7	7,375	9.6	861	1.1	14,899	19.5	2,283	2.9
St. Clair	17,468	36.9	13,584	28.7	3,240	6.8	506	1.0	9,259	19.5	1,358	2.8
St. Joseph	7,048	35.6	6,252	31.5	1,154	5.8	235	1.1	3,951	19.9	522	2.6

TABLE I-13. DISTRIBUTION OF MICHIGAN HOUSEHOLDS, BY TYPE AND COUNTY: CENSUS 1980 (cont.)

	Married-couple family				Single parent household with children				Ohe person household		Other household type	
	With children		No children		Female head		Male head					
County	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Sanilac	5,154	36.9	4,623	33.1	673	4.8	134	.9	2,594	18.5	258	1.8
Schoolcraft	1,012	33.2	1,044	34.2	151	4.9	34	1.1	621	20.3	69	2.2
Shiawassee	9,743	41.7	6,591	28.2	1,400	5.9	281	1.2	4,032	17.2	581	2.4
Tuscola	7,649	41.8	5,408	29.5	978	5.3	194	1.0	3,068	16.7	399	2.1
Van Buren	8,083	34.9	6,990	30.2	1,695	7.3	311	1.3	4,541	19.6	688	2.9
Washtenaw	26,320	28.3	22,626	24.3	6,215	6.6	1,018	1.0	22,440	24.1	11,073	11.9
Wayne	220,972	26.8	203,041	24.6	99,274	12.0	12,882	1.5	200,831	24.3	31,436	3.8
Wexford	3,086	34.3	2,849	31.7	563	6.2	75	.8	1,883	20.9	225	2.5
Total	1,053,625	32.9	894,390	27.9	257,458	8.0	39,670	1.2	672,901	21.0	129,808	4.0

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF 1, computer tape.

TABLE II-1. GENERAL HOUSING CHARACTERISTICS: CENSUS 1980

	Michigan	United States
Total housing units	3,589,912	88,411,263
Vacant seasonal & migratory	132,890	1,641,874
Year-round housing units	3,457,022	86,769,389
Tenure and vacancy status		
Owner-occupied housing units	2,321,883	51,794,545
Percent of occupied housing units	72.7	64.4
Renter-occupied housing units	873,330	28,595,128
Vacant housing units	261,809	6,379,716
For sale only	32,191	948,469
For rent	69,008	2,178,801
Held for occasional use	69,361	1,010,804
Other vacants	91,249	2,241,642
Year householder moved into unit		
Owner-occupied housing units	2,321,883	51,794,545
1979 to March 1980	262,663	6,111,867
1975 to 1978	611,777	13,402,102
1970 to 1974	411,263	9,404,786
1960 to 1969	518,046	11,152,581
1950 to 1959	293,485	6,690,075
1949 or earlier	224,649	5,033,134
Renter-occupied housing units	873,330	28,595,128
1979 to March 1980	387,111	12,184,750
1975 to 1978	307,548	9,367,149
1970 to 1974	94,348	3,384,266
1960 to 1969	50,437	2,236,304
1959 or earlier	33,886	1,422,659

SOURCE: Bureau of the Census, *1980 Census of Population and Housing, Supplementary Report, Provisional Estimates of Social, Economic, and Housing Characteristics* (Washington, D.C.: 1982), PHC80-S1-1, Table H1.

TABLE II-3. PERCENTAGE OF MICHIGAN YEAR-ROUND HOUSING UNITS BUILT BETWEEN 1970 AND 1980, AND IN 1939 OR EARLIER, BY COUNTY: CENSUS 1980

	Year structure built			Year structure built	
County	1970 to March 1980	1939 or earlier	County	1970 to March 1980	1939 or earlier
Alcona	36.4	16.4	Lake	27.4	22.5
Alger	26.8	42.2	Lapeer	36.9	29.6
Allegan	27.7	36.2	Leelanau	36.6	27.3
Alpena	25.4	31.5	Lenawee	19.2	41.7
Antrim	35.2	32.3	Livingston	45.3	20.0
Arenac	32.5	22.6	Luce	29.6	30.0
Baraga	25.4	47.5	Mackinac	23.7	33.1
Barry	22.2	36.1	Macomb	28.0	8.5
Bay	22.0	34.4	Manistee	20.8	43.8
Benzie	32.9	34.9	Marquette	28.9	36.8
Berrien	18.8	29.9	Mason	23.1	39.0
Branch	20.4	43.2	Mecosta	33.1	25.4
Calhoun	16.1	38.2	Menominee	21.9	44.6
Cass	23.0	32.6	Midland	29.3	15.5
Charlevoix	33.7	36.6	Missaukee	31.6	35.8
Cheboygan	31.7	29.1	Monroe	26.0	29.9
Chippewa	21.5	35.6	Montcalm	24.1	39.3
Clare	33.5	15.2	Montmorency	37.2	13.9
Clinton	28.1	35.7	Muskegon	18.9	28.4
Crawford	46.4	13.1	Newaygo	27.6	30.6
Delta	24.5	45.1	Oakland	29.7	12.8
Dickinson	18.0	58.8	Oceana	26.2	38.9
Eaton	36.9	28.3	Ogemaw	30.8	15.3
Emmet	32.8	36.5	Ontonagon	17.1	48.5
Genesee	22.1	21.7	Osecola	29.6	36.4
Gladwin	35.0	13.5	Oscoda	32.3	13.9
Gogebic	12.2	64.4	Otsego	42.5	15.9
Grand Traverse	42.1	25.0	Ottawa	30.5	25.4
Gratiot	18.7	47.1	Presque Isle	26.9	33.5
Hillsdale	22.5	48.7	Roscommon	32.5	9.9
Houghton	13.1	70.0	Saginaw	23.0	28.2
Huron	19.9	40.3	St. Clair	23.5	34.0
Ingham	23.5	24.9	St. Joseph	23.9	39.4
Ionia	22.4	48.0	Sanilac	24.3	41.6
Iosco	23.8	14.1	Schoolcraft	18.9	42.4
Iron	16.7	57.6	Shiawassee	24.5	39.8
Isabella	32.1	27.6	Tuscola	28.0	37.7
Jackson	20.6	38.3	Van Buren	26.3	36.4
Kalamazoo	24.6	27.1	Washtenaw	27.0	20.5
Kalkaska	45.4	16.9	Wayne	10.0	32.2
Kent	24.0	30.9	Wexford	30.7	38.0
Keweenaw	9.9	73.3	MICHIGAN	22.1	27.6

SOURCE: Bureau of the Census, special release.

TABLE II-2. GENERAL AND STRUCTURAL CHARACTERISTICS OF HOUSING STOCK IN LARGE MICHIGAN CITIES (75,000 AND OVER RESIDENTS), 1980

	Ann Arbor	Dearborn	Detroit	Flint	Grand Rapids	Kalamazoo	Lansing	Livonia
Total year-round housing units	40,133	35,692	471,228	60,910	69,847	30,199	51,938	33,009
percent owner-occupied	40	75	53	63	59	47	55	90
Structure age								
percent built between 1970 and March 1980	20	5	3	7	8	14	19	17
percent built between 1960 and 1969	33	6	5	16	12	14	19	35
percent built between 1950 and 1959	17	25	17	25	16	16	18	36
percent built between 1940 and 1949	9	33	29	18	15	14	13	7
percent built prior to 1940	21	32	46	35	49	42	31	5
Structure value								
median value (dollars), specified by owner	68,700	49,100	20,900	26,200	33,300	32,800	33,300	61,900
median rent (dollars), specified by renter	285	210	154	187	172	203	213	290

TABLE II-2. GENERAL AND STRUCTURAL CHARACTERISTICS OF HOUSING STOCK IN LARGE MICHIGAN CITIES (75,000 AND OVER RESIDENTS), 1980 (cont.)

	Pontiac	Saginaw	St. Clair Shores	South-field	Sterling Heights	Taylor	Warren	Westland
Total year-round housing units	27,740	28,732	27,147	31,289	34,506	25,355	54,500	23,641
percent owner occupied	52	61	84	56	80	68	80	72
Structure age								
percent built between 1970 and March 1980	13	6	9	36	53	24	13	21
percent built between 1960 and 1969	17	13	19	41	38	28	47	35
percent built between 1950 and 1959	22	16	54	14	6	33	25	29
percent built between 1940 and 1949	18	17	10	6	2	10	9	10
percent built prior to 1940	30	48	7	3	1	5	6	4
Structure value								
median value (dollars), specified by owner	25,500	25,800	46,500	67,200	66,500	37,100	47,300	45,600
median rent (dollars), specified by renter	205	174	269	368	280	247	260	266

SOURCE: Bureau of the Census, 1980 Census of Housing, General Housing Characteristics, Michigan, (Washington, D.C.: August 1982), Table 1, and 1980 Census of Housing, Detailed Housing Characteristics, Michigan, (Washington, D.C.: August 1983), Table 73.

TABLE II-4. MICHIGAN MEDIAN HOME VALUES, MEDIAN FAMILY INCOMES, PREDICTED MEDIAN HOME VALUES, AND EXPECTATION FACTORS, BY COUNTY[a]: 1970 AND 1980

	1970				1980			
County	Median home value[b]	Median family income[c]	Predicted median home value	Expectation factor	Median home value[b]	Median family income[c]	Predicted median home value	Expectation factor
Alcona	$12,400	$ 5,842	$ 7,097	42.76	$32,500	$12,301	$23,525	27.62
Alger	9,400	8,014	11,071	-17.78	27,500	16,354	30,632	-11.39
Allegan	12,700	9,309	13,441	-5.83	36,900	20,162	37,308	-1.11
Alpena	12,800	8,765	12,446	2.77	32,200	17,228	32,164	0.11
Antrim	11,500	8,043	11,124	3.27	35,000	16,174	30,316	13.38
Arenac	9,600	8,320	11,631	-21.16	32,300	15,016	28,285	12.43
Baraga	10,200	8,045	11,128	-9.10	28,800	15,598	29,306	-1.76
Barry	12,100	9,704	14,164	-17.05	33,100	20,651	38,166	-15.30
Bay	15,200	10,408	15,452	-1.66	35,800	22,304	41,064	-14.70
Benzie	10,700	7,760	10,607	0.87	32,100	15,435	29,020	9.59
Berrien	15,200	10,056	14,808	2.58	33,900	19,166	35,562	-4.90
Branch	12,000	9,325	13,470	-12.25	30,200	18,535	34,456	-14.09
Calhoun	13,800	10,789	16,149	-17.02	30,000	20,789	38,408	-28.03
Cass	12,200	9,781	14,304	-17.25	33,300	18,548	34,478	-3.54
Charlevoix	11,800	8,535	12,025	-1.90	34,400	16,896	31,582	8.19
Cheboygan	12,300	7,660	10,424	15.25	32,600	15,203	28,613	12.23
Chippewa	8,900	7,131	9,456	-6.24	25,500	14,987	28,235	-10.72
Clare	9,900	7,547	10,217	-3.20	26,300	13,231	25,156	4.35
Clinton	16,400	11,014	16,561	-0.98	43,300	23,368	42,930	0.85
Crawford	12,500	7,930	10,918	12.66	31,400	14,184	26,827	14.56
Delta	11,700	8,779	12,471	-6.59	33,500	17,668	32,935	1.69
Dickinson	10,200	8,316	11,624	-13.96	32,000	17,094	31,929	0.22
Eaton	17,900	11,423	17,309	3.30	45,600	24,574	45,044	1.22
Emmet	14,500	8,610	12,162	16.12	40,700	18,384	34,191	15.99
Genesee	16,300	11,255	17,001	-4.30	33,500	23,717	43,542	-29.98

TABLE II-4. MICHIGAN MEDIAN HOME VALUES, MEDIAN FAMILY INCOMES, PREDICTED MEDIAN HOME VALUES, AND EXPECTATION FACTORS, BY COUNTY[a]: 1970 AND 1980 (cont.)

County	1970				1980			
	Median home value[b]	Median family income[c]	Predicted median home value	Expectation factor	Median home value[b]	Median family income[c]	Predicted median home value	Expectation factor
Gladwin	$10,400	$ 8,157	$11,333	-8.97	$29,900	$14,678	$27,693	7.38
Gogebic	6,300	7,236	9,648	-53.14	17,400	13,683	25,948	-49.13
Grand Traverse	16,300	9,542	13,867	14.93	45,000	19,325	35,841	20.35
Gratiot	11,400	8,891	12,676	-11.19	27,200	18,334	34,103	-25.38
Hillsdale	11,400	8,895	12,683	-11.26	30,300	17,503	32,646	-7.74
Houghton	6,400	6,300	7,935	-23.99	21,400	14,398	27,202	-27.11
Huron	11,500	7,785	10,652	7.37	31,200	16,397	30,707	1.58
Ingham	17,900	11,193	16,888	5.65	39,800	21,921	40,393	-1.49
Ionia	11,200	9,578	13,933	-24.40	31,100	20,037	37,089	-19.26
Iosco	13,400	7,165	9,518	28.97	31,300	13,649	25,889	17.29
Iron	7,700	7,443	10,027	-30.22	23,800	14,532	27,437	-15.28
Isabella	14,500	9,207	13,254	8.59	37,500	18,318	34,075	9.13
Jackson	14,600	10,726	16,034	-9.82	33,100	21,363	39,414	-19.08
Kalamazoo	16,600	11,037	16,603	-0.02	40,800	22,211	40,901	-0.25
Kalkaska	9,200	6,686	8,642	6.07	32,500	15,691	29,469	9.33
Kent	16,000	10,692	15,971	0.18	38,900	21,530	39,707	-2.07
Keweenaw	5,000	4,809	5,207	-4.14	14,400	11,705	22,480	-56.11
Lake	6,700	6,000	7,386	-10.24	19,800	11,210	21,612	-9.15
Lapeer	15,900	10,388	15,415	3.05	42,300	22,984	42,257	0.10
Leelanau	16,300	8,278	11,554	29.11	48,600	17,975	33,474	31.12
Lenawee	14,700	10,027	14,755	-0.37	36,700	20,825	38,471	-4.83
Livingston	19,700	11,551	17,543	10.95	61,000	26,339	48,139	21.08
Luce	9,100	8,974	12,828	-40.97	26,000	15,327	28,831	-10.89
Mackinac	8,700	7,273	9,716	-11.67	28,400	14,985	28,231	0.59
Macomb	22,700	13,110	20,396	10.15	50,600	26,666	48,713	3.73

TABLE II-4. MICHIGAN MEDIAN HOME VALUES, MEDIAN FAMILY INCOMES, PREDICTED MEDIAN HOME VALUES, AND EXPECTATION FACTORS, BY COUNTY[a]: 1970 AND 1980 (cont.)

County	1970				1980			
	Median home value[b]	Median family income[c]	Predicted median home value	Expectation factor	Median home value[b]	Median family income[c]	Predicted median home value	Expectation factor
Manistee	$11,000	$ 8,365	$11,714	-6.49	$30,700	$17,281	$32,257	-5.07
Marquette	12,500	8,562	12,074	3.41	37,800	19,492	36,134	4.41
Mason	11,500	8,476	11,917	-3.62	29,800	16,824	31,456	-5.56
Mecosta	11,200	7,902	10,866	2.98	32,200	16,023	30,051	6.67
Menominee	10,300	7,703	10,502	-1.96	29,900	16,380	30,677	-2.60
Midland	19,000	11,618	17,666	7.02	44,900	23,598	43,333	3.49
Missaukee	9,200	6,820	8,887	3.40	28,200	13,953	26,422	6.31
Monroe	17,600	11,398	17,263	1.91	45,700	23,281	42,777	6.40
Montcalm	10,300	8,526	12,008	-16.58	27,900	16,942	31,663	-13.49
Montmorency	10,100	5,851	7,114	29.57	29,200	11,995	22,988	21.27
Muskegon	12,500	9,757	14,261	-14.08	27,700	18,716	34,773	-25.53
Newaygo	10,600	8,121	11,267	-6.29	28,400	16,468	30,831	-8.56
Oakland	23,200	13,826	21,706	6.44	56,300	28,803	52,460	6.82
Oceana	10,200	8,000	11,046	-8.29	28,000	16,334	30,596	-9.27
Ogemaw	11,100	6,545	8,384	24.47	27,700	12,270	23,471	15.27
Ontonagon	9,000	8,421	11,816	-31.29	20,800	15,984	29,983	-44.15
Osceola	8,800	7,961	10,974	-24.71	26,200	14,937	28,147	-7.43
Oscoda	10,100	6,411	8,138	19.42	27,400	12,922	24,614	10.17
Otsego	16,100	9,413	13,631	15.33	39,000	16,941	31,661	18.82
Ottawa	16,600	10,445	15,519	6.51	44,800	22,058	40,633	9.30
Presque Isle	12,400	7,889	10,843	12.56	31,700	15,244	28,685	9.51
Roscommon	13,100	6,895	9,024	31.11	29,000	12,474	23,828	17.83
Saginaw	16,300	10,878	16,312	-0.07	36,200	22,125	40,750	-12.57
St. Clair	14,600	10,125	14,934	-2.29	37,800	21,119	38,986	-3.14
St. Joseph	12,200	9,686	14,131	-15.83	32,400	18,609	34,585	-6.75

TABLE II-5. MEDIAN CONTRACT RENT OF RENTER-OCCUPIED HOUSING UNITS IN MICHIGAN, BY COUNTY, CENSUS: 1970 AND 1980

	Contract rent			Contract rent	
County	1970	1980	County	1970	1980
Alcona	64	136	Lake	53	109
Alger	57	125	Lapeer	87	190
Allegan	77	167	Leelanau	72	183
Alpena	78	162	Lenawee	88	189
Antrim	70	167	Livingston	112	242
Arenac	63	134	Luce	57	140
Baraga	55	122	Mackinac	66	139
Barry	77	167	Macomb	143	259
Bay	86	189	Manistee	58	146
Benzie	59	152	Marquette	79	193
Berrien	88	179	Mason	68	152
Branch	73	168	Mecosta	95	159
Calhoun	88	175	Menominee	58	151
Cass	76	156	Midland	116	217
Charlevoix	81	176	Missaukee	56	152
Cheboygan	72	156	Monroe	93	199
Chippewa	69	154	Montcalm	66	153
Clair	72	153	Montmorency	51	142
Clinton	88	190	Muskegon	76	159
Crawford	78	166	Newaygo	68	150
Delta	67	152	Oakland	151	286
Dickinson	65	164	Oceana	66	139
Eaton	110	227	Ogemaw	66	146
Emmet	80	186	Ontonagon	57	124
Genessee	111	208	Osceola	63	141
Gladwin	64	147	Oscoda	57	128
Gogebic	50	113	Otsego	86	181
Grand Traverse	91	219	Ottawa	82	199
Gratiot	70	157	Presque Isle	65	141
Hillsdale	73	158	Roscommon	67	152
Houghton	65	160	Saginaw	93	197
Huron	63	149	St. Clair	84	201
Ingham	125	223	St. Joseph	81	172
Ionia	74	155	Sanilac	63	155
Iosco	80	161	Schoolcraft	54	140
Iron	53	112	Shiawassee	84	178
Isabella	112	177	Tuscola	69	159
Jackson	94	188	Van Buren	74	159
Kalamazoo	111	211	Washtenaw	144	271
Kalkaska	64	172	Wayne	84	166
Kent	88	190	Wexford	70	158
Keweenaw	30	123	MICHIGAN	77	196

SOURCE: Bureau of the Census, 1970 Census of Housing, Detailed Housing Characteristics, Michigan, (Washington,D.C.: 1972), HC(1)-B24, Table 61 and 1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties: 1980 (Washington, D.C.: 1981), HC80-S1-1, p 150.

NOTE: Applies to all family homes on less than 10 acres with no business property.

TABLE II-6. NUMBER OF HOUSING UNITS IN MICHIGAN: 1970 AND 1980 CENSUS

County	1970	1980	County	1970	1980
Alcona	6,267	9,376	Lake	6,542	10,518
Alger	3,906	5,067	Lapeer	15,698	23,026
Allegan	23,679	31,864	Leelanau	6,327	9,073
Alpena	10,468	13,977	Lenawee	27,621	33,750
Antrim	7,380	10,781	Livingston	20,591	34,951
Arenac	5,340	7,695	Luce	2,503	3,574
Baraga	3,112	4,270	Mackinac	6,011	7,624
Barry	14,733	19,149	Macomb	176,478	236,602
Bay	36,578	43,395	Manistee	9,346	12,235
Benzie	5,864	7,509	Marquette	21,898	30,530
Berrien	59,647	68,758	Mason	10,491	13,228
Branch	13,865	17,997	Mecosta	11,092	15,516
Calhoun	46,839	54,234	Menominee	9,258	11,545
Cass	17,276	21,583	Midland	19,753	26,355
Charlevoix	7,617	11,117	Missaukee	3,752	6,116
Cheboygan	8,924	12,488	Monroe	34,244	45,361
Chippewa	13,071	16,411	Montcalm	16,428	20,886
Clare	12,802	18,544	Montmorency	4,830	7,886
Clinton	14,100	18,468	Muskegon	49,895	58,241
Crawford	4,010	7,489	Newaygo	12,982	18,306
Delta	13,185	16,905	Oakland	275,651	373,250
Dickinson	9,417	11,250	Oceana	8,257	11,394
Eaton	20,840	31,522	Ogemaw	9,262	12,977
Emmet	8,904	12,506	Ontonagon	4,334	5,042
Genesee	135,670	162,989	Osceola	6,766	9,927
Gladwin	8,855	13,509	Oscoda	5,014	7,308
Gogebic	8,906	10,112	Ostego	5,150	9,078
Grand Traverse	15,447	23,613	Ottawa	38,411	53,960
Gratiot	12,298	14,278	Presque Isle	5,706	8,361
Hillsdale	13,488	17,095	Roscommon	13,210	17,925
Houghton	14,081	16,470	Saginaw	65,817	79,543
Huron	14,647	17,852	St. Clair	41,553	51,903
Ingham	81,132	99,517	St. Joseph	17,816	22,479
Ionia	14,207	17,612	Sanilac	14,841	18,492
Iosco	13,937	18,006	Schoolcraft	3,864	4,974
Iron	6,874	7,739	Shiawassee	19,401	24,464
Isabella	12,447	18,167	Tuscola	15,523	20,052
Jackson	45,009	55,740	Van Buren	23,903	28,801
Kalamazoo	62,529	79,813	Washtenaw	72,346	98,172
Kalkaska	3,034	7,596	Wayne	870,092	875,018
Kent	131,806	162,282	Wexford	19,717	11,575
Keweenaw	1,753	2,149	MICHIGAN	2,954,451	3,589,912

SOURCE: Bureau of the Census, 1970 Census of Housing, General Detailed Characteristics-Michigan (Washington, D.C.: 1972), Tables 32 and 60; and 1980 Census of Population and Housing, STF1, computer tape.

TABLE II-7. SELECTED STRUCTURAL CHARACTERISTICS OF YEAR ROUND HOUSING UNITS, BY COUNTY: CENSUS 1980

County	Year round housing units	Percent in 5 or more unit structures	Percent with outside water source	Percent with public sewer	Percent with central heat system	Percent with air condition	Percent mobile homes
Alcona	6,650	1.8	92.2	7.3	72.6	2.5	12.3
Alger	3,918	2.6	60.1	33.1	76.3	2.1	8.1
Allegan	28,985	3.6	68.8	29.6	93.0	20.8	10.3
Alpena	12,479	2.7	49.6	50.2	91.3	3.5	7.2
Antrim	8,430	3.1	70.2	15.1	76.5	4.1	8.6
Arenac	7,466	2.8	77.2	14.0	83.6	8.5	12.6
Baraga	3,451	2.1	51.5	44.4	73.3	8.7	8.6
Barry	17,749	3.8	76.6	22.3	89.6	15.7	8.1
Bay	43,116	2.6	17.5	61.9	96.6	26.9	4.9
Benzie	4,896	3.7	69.2	25.8	83.3	3.8	12.8
Berrien	65,635	3.1	43.0	63.7	96.0	42.7	3.9
Branch	15,947	3.9	62.2	35.7	92.0	19.5	10.8
Calhoun	53,967	2.5	38.8	50.7	97.2	30.4	4.2
Cass	18,657	2.9	76.5	21.2	91.0	33.7	9.0
Charlevoix	8,835	4.2	50.9	39.9	86.9	3.1	10.0
Cheboygan	9,736	3.0	75.7	21.8	83.5	3.7	10.2
Chippewa	12,517	2.4	43.4	51.2	89.0	2.2	10.3
Clare	11,475	1.7	80.2	21.3	83.5	8.5	12.7
Clinton	18,427	4.8	66.5	47.1	95.2	24.2	7.7
Crawford	5,835	1.3	84.4	16.1	81.7	4.6	12.8
Delta	14,910	2.8	46.8	50.8	90.0	3.4	7.6
Dickinson	10,307	2.3	21.3	67.5	94.3	11.1	4.3
Eaton	31,429	2.9	41.4	60.4	96.0	34.7	3.9
Emmet	10,354	5.1	53.7	44.5	88.2	3.7	8.1
Genesee	162,593	1.9	34.8	84.7	98.4	32.4	5.0
Gladwin	11,975	1.2	86.9	12.5	80.4	9.2	16.0
Gogebic	8,960	2.1	21.1	70.7	88.7	4.0	4.2
Grand Traverse	21,846	3.2	60.6	38.2	91.6	8.8	10.9
Gratiot	14,214	4.4	52.2	49.7	92.3	17.5	7.7
Hillsdale	16,342	4.4	67.2	31.0	92.5	15.7	10.6

TABLE II-7. SELECTED STRUCTURAL CHARACTERISTICS OF YEAR ROUND HOUSING UNITS, BY COUNTY: CENSUS 1980 (cont.)

County	Year round housing units	Percent in 5 or more unit structures	Percent with outside water source	Percent with public sewer	Percent with central heat system	Percent with air condition	Percent mobile homes
Muskegon	57,694	2.1	36.9	57.6	96.0	15.3	3.5
Newaygo	13,834	2.9	80.2	19.9	83.5	9.3	16.1
Oakland	371,516	2.6	18.6	80.5	99.0	53.0	2.9
Oceana	8,346	3.4	74.1	22.8	86.2	6.3	13.3
Ogemaw	12,793	1.8	92.9	8.6	81.4	3.9	14.2
Ontonagon	4,055	2.9	51.2	42.0	88.5	5.5	7.5
Osceola	8,328	4.7	75.0	23.8	82.2	5.9	12.6
Oscoda	4,695	2.4	97.0	2.8	64.4	4.8	15.2
Otsego	6,154	2.6	78.6	20.8	86.4	4.5	9.6
Ottawa	52,817	3.0	46.3	40.8	96.8	20.2	4.4
Presque Isle	5,822	3.9	65.5	27.4	84.9	3.3	7.4
Roscommon	12,948	1.8	93.4	27.7	84.3	3.7	8.9
Saginaw	79,436	2.4	18.3	75.8	96.5	31.5	3.1
St. Clair	50,221	2.6	31.5	63.1	94.9	19.7	5.8
St. Joseph	21,248	3.6	52.4	41.1	92.9	31.4	8.7
Sanilac	15,679	4.9	69.8	26.8	89.3	11.3	9.2
Schoolcraft	3,676	3.1	53.6	43.6	79.5	1.0	8.2
Shiawassee	24,398	3.8	53.1	48.7	95.6	24.1	6.1
Tuscola	19,461	4.2	68.2	29.4	91.2	17.4	9.2
Van Buren	25,468	3.5	63.9	33.6	91.4	25.1	11.4
Washtenaw	97,397	2.7	18.4	81.6	98.7	48.0	1.7
Wayne	874,718	2.1	.5	98.0	98.8	42.6	1.0
Wexford	10,682	3.1	58.6	46.0	85.8	5.9	12.1
TOTAL	3,450,696	2.5	27.4	71.3	96.1	34.2	4.3

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF3, computer tape.

TABLE II-8. SELECTED CHARACTERISTICS OF FHA-INSURED HOMES UNDER SECTION 203 IN MICHIGAN AND THE UNITED STATES: 1977-1983

	New homes		Existing homes	
Year	Michigan	United States	Michigan	United States
		Median property value (dollars)		
1977	34,882	37,487	23,101	29,252
1978	39,636	41,863	22,871	33,425
1979	43,611	50,406	26,732	38,442
1980	n.a.	56,042	34,389	44,054
1981	n.a.	60,993	31,431	47,067
1982	n.a.	62,425	32,200	50,586
1983	n.a.	63,878	44,731	56,236
		Average construction cost per square foot		
1977	27.80	23.39	--	--
1978	30.69	25.95	--	--
1979	35.78	29.87	--	--
1980	38.96	34.40	--	--
1981	n.a.	38.55	--	--
1982	n.a.	50.43	--	--
1983	n.a.	55.33	--	--
		Average market price of site		
1977	6,169	7,279	3,438	5,878
1978	6,901	7,993	3,409	7,052
1979	7,482	9,816	3,920	8,145
1980	6,695	11,809	5,163	10,105
1981	n.a.	12,482	4,930	11,410
1982	n.a.	14,990	n.a.	15,601
1983	n.a.	12,834	8,277	12,835
		Average improved living area (square feet)		
1977	1,043	1,294	934	1,097
1978	1,041	1,316	899	1,103
1979	1,044	1,351	921	1,111
1980	1,023	1,297	939	1,111
1981	n.a.	1,344	937	1,168
1982	n.a.	1,247	992	1,198
1983	n.a.	1,277	1,135	1,228
		Percentage with full basement		
1977	84.4	11.4	73.5	23.0
1978	91.9	11.8	71.9	23.4
1979	92.4	9.6	71.3	25.4
1980	84.7	12.4	68.4	28.0
1981	n.a.	8.7	71.2	29.6
1982	n.a.	14.8	59.8	34.7
1983	n.a.	16.7	61.4	33.6

SOURCE: Federal Housing Administration, FHA Homes, 1977 through 1984 (Washington, D.C.: annually), Tables 5S, 7S, 8S, and 14S.

n.a. not available - inadequate sample.

TABLE II-9. PERCENTAGE OF TOTAL HOUSING UNITS THAT ARE SEASONAL AND MIGRATORY, CENSUS: 1970 AND 1980

County	Percentage 1970	Percentage 1980	County	Percentage 1970	Percentage 1980
Alcona	42.7	29.7	Lake	36.9	26.8
Alger	12.0	22.3	Lapeer	3.4	3.0
Allegan	10.0	9.1	Leelanau	20.1	20.4
Alpena	5.4	10.8	Lenawee	6.7	0.6
Antrim	18.2	22.2	Livingston	9.8	5.2
Arenac	26.7	2.7	Luce	19.7	31.9
Baraga	6.8	20.7	Mackinac	30.5	42.6
Barry	11.0	7.7	Macomb	0.1	0.1
Bay	1.4	0.5	Manistee	16.2	19.6
Benzie	36.7	35.0	Marquette	8.8	12.0
Berrien	7.6	4.9	Mason	10.8	9.7
Branch	8.7	11.5	Mecosta	19.3	5.8
Calhoun	0.8	0.5	Menominee	3.8	10.8
Cass	9.7	13.9	Midland	1.1	1.0
Charlevoix	17.7	20.7	Missaukee	25.1	33.7
Cheboygan	32.5	22.6	Monroe	0.2	0.5
Chippewa	16.1	23.8	Montcalm	15.0	11.2
Clare	13.6	38.5	Montmorency	28.0	37.1
Clinton	0.1	0.2	Muskegon	1.3	1.0
Crawford	41.9	23.9	Newaygo	16.9	25.6
Delta	6.6	11.7	Oakland	0.7	0.5
Dickinson	8.3	8.9	Oceana	22.3	27.2
Eaton	0.8	0.3	Ogemaw	16.3	1.2
Emmet	22.8	17.6	Ontonagon	9.9	19.6
Genesee	0.4	0.3	Osceola	17.1	16.3
Gladwin	19.4	11.4	Oscoda	37.8	36.2
Gogebic	12.6	11.5	Otsego	15.1	31.2
Grand Traverse	15.8	7.6	Ottawa	2.9	2.2
Gratiot	1.2	0.4	Presque Isle	22.0	30.5
Hillsdale	5.1	4.7	Roscommon	42.9	27.7
Houghton	10.3	12.0	Saginaw	0.3	0.1
Huron	18.2	15.8	St. Clair	2.1	3.2
Ingham	0.1	0.1	St. Joseph	7.9	5.5
Ionia	2.5	2.7	Sanilac	15.9	15.4
Iosco	22.9	10.3	Schoolcraft	16.4	26.5
Iron	11.4	19.9	Shiawassee	0.2	0.2
Isabella	2.4	4.5	Tuscola	2.1	3.1
Jackson	2.1	3.7	Van Buren	16.9	11.8
Kalamazoo	0.7	0.6	Washtenaw	1.3	0.8
Kalkaska	15.1	29.7	Wayne	0.0	0.0
Kent	1.0	1.1	Wexford	6.4	8.0
Keweenaw	44.1	45.4	TOTAL	3.7	3.9

SOURCE: Bureau of the Census, 1970 Census of Housing, Detailed Housing Characteristics, Michigan (Washington, D.C.: 1972), HC(1)-B24, Table 60 and 1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties: 1980 (Washington, D.C.: 1981), HC80-S1-1, p. 150.

TABLE II-10. PERCENTAGE OF YEAR-ROUND HOUSING UNITS THAT ARE VACANT, CENSUS: 1970 AND 1980

County	Percentage 1970	Percentage 1980	County	Percentage 1970	Percentage 1980
Alcona	33.3	43.6	Lake	52.6	60.4
Alger	24.5	16.8	Lapeer	8.8	5.0
Allegan	8.5	6.0	Leelanau	34.2	30.4
Alpena	11.4	10.6	Lenawee	6.0	10.4
Antrim	34.9	31.7	Livingston	9.0	5.4
Arenac	12.9	31.9	Luce	13.1	10.0
Baraga	18.2	13.5	Mackinac	29.6	15.9
Barry	12.4	12.6	Macomb	2.7	2.8
Bay	4.1	4.2	Mainstee	17.4	13.6
Benzie	24.8	17.9	Marquette	8.9	8.8
Berrien	7.9	7.8	Mason	22.3	18.9
Branch	11.5	12.0	Mecosta	13.0	23.8
Calhoun	4.4	5.2	Menominee	14.2	9.9
Cass	14.4	7.2	Midland	7.8	6.1
Charlevoix	20.2	20.0	Missaukee	21.1	15.5
Cheboygan	18.0	24.7	Monroe	2.9	4.4
Chippewa	15.2	20.6	Montcalm	11.2	10.8
Clare	51.7	23.8	Montmorency	48.8	43.2
Clinton	3.4	3.6	Muskegon	4.5	5.4
Crawford	15.1	41.8	Newaygo	21.7	10.9
Delta	12.2	9.1	Oakland	3.3	4.3
Dickinson	9.1	6.9	Oceana	15.2	10.6
Eaton	3.9	4.1	Ogemaw	50.4	53.6
Emmet	20.0	21.4	Ontonagon	17.3	13.1
Genesee	4.0	4.9	Osceola	17.9	21.0
Gladwin	41.0	40.1	Oscoda	48.8	46.0
Gogebic	8.4	15.3	Otsego	30.8	21.2
Grand Traverse	12.2	12.1	Ottawa	3.6	4.4
Gratiot	6.7	6.3	Presque Isle	13.8	13.8
Hillsdale	10.9	11.7	Roscommon	52.4	49.7
Houghton	12.4	10.5	Saginaw	3.8	4.2
Huron	13.8	15.0	St. Clair	10.5	5.8
Ingham	4.9	4.3	St. Joseph	7.4	6.8
Ionia	7.6	5.3	Sanilac	15.4	10.8
Iosco	31.8	37.1	Schoolcraft	20.6	16.7
Iron	19.1	12.4	Shiawassee	4.0	4.3
Isabella	7.9	7.5	Tuscola	9.8	5.8
Jackson	4.1	5.0	Van Buren	13.1	9.0
Kalamazoo	4.3	4.9	Washtenaw	4.0	4.6
Kalkaska	32.2	18.2	Wayne	4.5	5.8
Kent	5.1	26.8	Wexford	15.1	15.6
Keweenaw	17.4	29.0	TOTAL	6.8	7.3

SOURCE: Bureau of the Census, 1970 Census of Housing, Detailed Housing Characteristics, Michigan (Washington, D.C.: 1972), HC(1)-B24, Table 60 and 1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties: 1980 (Washington, D.C.: 1981), HC80-S1-1, p. 150.

TABLE II-4. MICHIGAN MEDIAN HOME VALUES, MEDIAN FAMILY INCOMES, PREDICTED MEDIAN HOME VALUES, AND EXPECTATION FACTORS, BY COUNTY[a]: 1970 AND 1980 (cont.)

	1970				1980			
County	Median home value[b]	Median family income[c]	Predicted median home value	Expectation factor	Median home value[b]	Median family income[c]	Predicted median home value	Expectation factor
Sanilac	$11,800	$ 8,583	$12,113	-2.65	$31,000	$16,624	$31,105	-0.34
Schoolcraft	8,700	7,692	10,482	-20.49	24,700	14,670	27,679	-12.06
Shiawassee	13,800	10,540	15,693	-13.72	35,100	21,737	40,070	-14.16
Tuscola	12,300	9,558	13,896	-12.98	35,500	20,583	38,047	-7.17
Van Buren	12,400	8,735	12,391	0.08	33,300	17,700	32,992	0.93
Washtenaw	23,300	12,294	18,903	18.87	60,800	25,465	46,607	23.34
Wayne	18,100	11,351	17,177	5.10	32,600	22,134	40,766	-25.05
Wexford	9,600	8,024	11,090	-15.52	29,200	15,884	29,807	-2.08
MICHIGAN	17,500	11,032	--	--	39,000	22,108	--	--

SOURCE: Original data collected from Bureau of the Census, 1970 Census of Population, 1980 Census of Population, 1970 Census of Housing, and 1980 Census of Housing.

[a] Predicted home values were obtained through use of an in-house economic model developed by the Bureau of Business Research, with family income as the independent variable. Subjectively, counties with expectation factors of 15 percent or greater have optimistic expectations, counties with expectation factors between -5 percent and 14.99 percent have stable expectations, and counties with expectation factors less than -5 percent have pessimistic expectations. The expectation factor is determined as follows:

$$\frac{\text{Actual median home value in county} - \text{Predicted median home value in county}}{\text{Actual median home value in county}} \times 100$$

[b] Median home values are the median value of owner-occupied single-structure units located on less than ten acres in each county.

[c] Figures pertain to incomes received during 1969 and 1979.

TABLE II-7. SELECTED STRUCTURAL CHARACTERISTICS OF YEAR ROUND HOUSING UNITS, BY COUNTY: CENSUS 1980 (cont.)

County	Year round housing units	Percent in 5 or more unit structures	Percent with outside water source	Percent with public sewer	Percent with central heat system	Percent with air condition	Percent mobile homes
Houghton	14,501	3.5	24.1	63.5	88.5	3.3	5.3
Huron	15,060	5.1	62.9	29.0	92.4	12.7	6.9
Ingham	99,453	2.6	13.7	88.0	98.3	40.5	2.9
Ionia	17,175	5.1	52.4	46.0	92.4	21.1	9.9
Iosco	16,295	1.3	65.6	30.3	86.8	3.6	8.9
Iron	6,188	3.0	8.5	59.9	92.3	4.2	3.3
Isabella	17,376	3.6	55.1	45.4	92.7	22.2	11.4
Jackson	53,629	2.8	53.0	59.4	96.8	26.7	5.4
Kalamazoo	79,333	2.3	29.2	54.2	97.6	39.6	3.1
Kalkaska	4,649	2.3	86.9	13.7	81.9	4.4	20.7
Kent	163,461	2.4	20.5	79.4	97.9	32.6	3.7
Keweenaw	1,168	2.1	19.3	30.4	72.0	.5	3.1
Lake	7,721	2.3	93.7	2.3	76.2	5.4	17.6
Lapeer	22,314	3.9	72.5	25.1	91.9	16.2	6.5
Leelanu	7,221	4.9	83.8	17.8	81.3	3.9	7.1
Lenawee	33,533	3.4	52.6	50.7	96.1	28.0	5.1
Livingston	33,261	3.8	77.6	22.3	95.9	26.4	5.1
Luce	2,438	3.2	52.2	45.9	79.0	2.1	13.6
Mackinac	4,382	2.6	62.2	30.8	75.0	.7	8.4
Macomb	236,435	1.4	6.7	89.3	99.2	49.9	3.1
Manistee	9,901	3.7	59.2	35.9	87.4	5.8	7.4
Marquette	26,900	1.8	26.6	68.3	92.7	5.3	7.1
Mason	12,026	3.2	58.1	39.7	88.7	6.6	7.7
Mecosta	14,642	3.2	76.6	25.5	86.4	8.6	14.4
Menominee	10,310	3.7	53.9	46.5	92.5	11.0	6.4
Midland	26,075	3.4	41.1	54.6	93.7	29.6	8.0
Missaukee	4,083	3.5	85.8	.8	80.8	3.6	14.9
Monroe	45,124	2.8	38.7	57.6	96.6	37.7	5.9
Montcalm	18,564	3.2	68.7	29.1	88.1	14.4	10.4
Montmorency	5,014	1.9	94.3	6.9	67.0	3.4	10.0

TABLE II-11. PERCENTAGE OF YEAR-ROUND HOUSING UNITS THAT ARE OWNER OCCUPIED, CENSUS: 1970 AND 1980

County	Percentage		County	Percentage	
	1970	1980		1970	1980
Alcona	59.7	49.3	Lake	41.1	33.5
Alger	59.6	66.4	Lapeer	73.5	78.1
Allegan	75.5	76.9	Leelanau	54.5	55.6
Alpena	73.4	72.6	Lenawee	73.3	69.7
Antrim	56.1	57.7	Livingston	74.0	78.1
Arenac	75.1	58.7	Luce	70.9	74.8
Baraga	65.0	67.8	Mackinac	56.1	67.2
Barry	74.3	73.8	Macomb	80.9	77.2
Bay	78.0	75.9	Manistee	68.3	68.7
Benzie	62.8	67.6	Marquette	59.6	58.6
Berrien	67.7	64.9	Mason	63.1	63.6
Branch	69.5	68.2	Mecosta	61.7	54.2
Calhoun	73.7	69.3	Menominee	70.8	72.6
Cass	69.9	74.5	Midland	75.4	74.0
Charlevoix	65.7	63.2	Missaukee	68.9	73.3
Cheboygan	67.9	62.0	Monroe	77.1	75.3
Chippewa	53.2	60.2	Montcalm	73.1	72.0
Clare	42.1	62.9	Montmorency	44.5	49.5
Clinton	82.2	81.3	Muskegon	75.2	71.5
Crawford	68.9	48.5	Newaygo	66.5	75.0
Delta	68.6	70.7	Oakland	75.7	71.1
Dickinson	76.2	75.6	Oceana	70.3	74.3
Eaton	77.3	70.5	Ogemaw	41.3	38.9
Emmet	63.0	59.0	Ontonagon	68.4	72.2
Genesee	74.4	71.1	Osceola	68.5	65.5
Gladwin	52.5	50.9	Oscoda	44.7	47.0
Gogebic	73.0	69.0	Otsego	58.5	64.5
Grand Traverse	68.7	66.2	Ottawa	79.9	78.7
Gratiot	73.0	73.0	Presque Isle	75.0	75.0
Hillsdale	71.2	70.4	Roscommon	40.8	43.0
Houghton	64.8	63.4	Saginaw	74.8	71.1
Huron	71.4	70.2	St. Clair	71.0	73.7
Ingham	61.2	56.0	St. Joseph	73.4	72.3
Ionia	74.7	74.4	Sanilac	70.3	74.1
Iosco	44.3	44.1	Schoolcraft	64.0	67.3
Iron	67.0	72.2	Shiawassee	77.7	77.1
Isabella	64.0	62.0	Tuscola	75.3	78.6
Jackson	75.7	71.5	Van Buren	67.4	70.1
Kalamazoo	68.4	62.4	Washtenaw	54.9	51.0
Kalkaska	58.5	69.3	Wayne	64.8	62.7
Kent	71.8	68.3	Wexford	68.5	67.1
Keweenaw	67.6	59.8	TOTAL	69.4	67.3

SOURCE: Bureau of the Census, 1970 Census of Housing, Detailed Housing Characteristics, Michigan (Washington, D.C.: 1972), HC(1)-B24, Table 60 and 1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties: 1980 (Washington, D.C.: 1981), HC80-S1-1, p. 150.

TABLE II-12. PERCENTAGE OF YEAR-ROUND HOUSING UNITS THAT ARE RENTER OCCUPIED, CENSUS: 1970 AND 1980

County	Percentage 1970	Percentage 1980	County	Percentage 1970	Percentage 1980
Alcona	7.0	7.0	Lake	6.4	6.1
Alger	15.9	16.9	Lapeer	17.7	16.8
Allegan	16.1	17.1	Leelanau	11.2	13.9
Alpena	15.2	16.8	Lenawee	20.7	19.9
Antrim	8.9	11.0	Livingston	17.0	15.6
Arenac	12.0	9.4	Luce	15.9	15.2
Baraga	16.8	18.7	Mackinac	14.3	16.9
Barry	13.3	13.6	Macomb	16.4	20.0
Bay	17.9	19.9	Manistee	14.4	17.7
Benzie	12.4	14.5	Marquette	31.5	32.7
Berrien	24.4	27.2	Mason	14.7	17.5
Branch	19.1	19.8	Mecosta	25.4	21.9
Calhoun	21.9	25.4	Menominee	15.0	17.6
Cass	15.7	18.3	Midland	16.8	19.9
Charlevoix	14.1	16.8	Missaukee	10.0	11.2
Cheboygan	14.2	13.3	Monroe	20.1	20.3
Chippewa	31.6	19.1	Montcalm	15.7	17.2
Clare	6.2	13.3	Montmorency	6.7	7.3
Clinton	14.4	15.0	Muskegon	20.3	23.1
Crawford	16.0	9.6	Newaygo	11.8	14.2
Delta	19.2	20.2	Oakland	21.0	24.5
Dickinson	14.7	17.3	Oceana	14.5	15.1
Eaton	18.8	25.4	Ogemaw	8.3	7.4
Emmet	17.0	19.7	Ontonagon	14.3	14.6
Genesee	21.7	24.0	Osceola	13.6	13.5
Gladwin	6.6	8.9	Oscoda	6.5	7.1
Gogebic	18.6	15.7	Otsego	10.8	14.2
Grand Traverse	19.1	21.7	Ottawa	16.5	16.9
Gratiot	20.3	20.7	Presque Isle	11.2	11.2
Hillsdale	17.9	17.9	Roscommon	6.7	7.3
Houghton	22.8	26.0	Saginaw	21.4	24.8
Huron	14.8	14.8	St. Clair	18.5	20.5
Ingham	33.8	39.7	St. Joseph	19.2	20.6
Ionia	17.8	20.2	Sanilac	14.2	15.1
Iosco	23.9	18.8	Schoolcraft	15.4	16.1
Iron	13.9	15.4	Shiawassee	18.3	18.6
Isabella	28.1	30.5	Tuscola	14.9	15.5
Jackson	20.2	23.4	Van Buren	19.5	20.9
Kalamazoo	27.3	32.6	Washtenaw	41.1	44.4
Kalkaska	9.2	12.5	Wayne	30.7	31.6
Kent	23.2	26.8	Wexford	16.5	17.3
Keweenaw	15.0	11.2	TOTAL	23.8	25.3

SOURCE: Bureau of the Census, 1970 Census of Housing, Detailed Housing Characteristics, Michigan (Washington, D.C.: 1972), HC(1)-B24, Table 60 and 1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties: 1980 (Washington, D.C.: 1981), HC80-S1-1, p. 150.

TABLE II-13. MEDIAN VALUES AND HOME VALUE RATIOS OF OWNER-OCCUPIED SINGLE DWELLING HOUSING UNITS IN STANDARD METROPOLITAN STATISTICAL AREAS: 1950, 1960, 1970 AND 1980

Standard Metropolitan Statistical Area[a]	1950		1960		1970		1980	
	Median value	Home value ratio[b]	Median value	Home value ratio[b]	Median value	Home value ratio[b]	Median value	Home value ratio[b]
Ann Arbor	n.a.	n.a.	$15,100	1.26	$23,100	1.32	$60,800	1.56
Battle Creek	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	30,800	.79
Bay City	$ 6,178	.82	10,300	.86	14,900	.85	35,800	.92
Benton Harbor	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	33,900	.87
Detroit	8,966	1.20	13,300	1.11	19,600	1.12	42,500	1.09
Flint	6,468	.86	11,200	.93	16,300	.93	35,500	.91
Grand Rapids	8,091	1.08	12,100	1.01	16,100	.92	40,600	1.04
Jackson	6,157	.82	10,200	.85	14,300	.82	33,100	.85
Kalamazoo-Portage	7,315	.98	12,000	1.00	16,400	.94	39,100	1.00
Lansing-East Lansing	7,042	.94	11,500	.96	17,600	1.01	40,400	1.04
Muskegon-Norton Shores-Muskegon Heights	n.a.	n.a.	9.900	.83	12,600	.72	27,700	.71
Saginaw	6,400	.85	11,000	.92	16,300	.93	36,200	.93
Toldeo (Michigan part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	45,700	1.17
MICHIGAN	7,496	1.00	12,000	1.00	17,500	1.00	39,000	1.00

SOURCE: Bureau of the Census, Census of Housing, General Characteristics-Michigan (Washington, D.C.), Table 1, 1950, 1960, 1970 and 1980.

a. In 1970 the Bay City SMSA was Bay County, the Detroit SMSA was Macomb, Oakland, and Wayne counties; the Flint SMSA was Genesee County; the Grand Rapids SMSA was Kent County, the Jackson SMSA was Jackson County, the Kalamazoo SMSA was Kalamazoo County, the Lansing SMSA was Ingham County, and the Saginaw SMSA was Saginaw County. By 1960 the Muskegon-North Shores-Muskegon Heights SMSA was Muskegon County, the Ann Arbor SMSA was Washtenaw County, Lansing SMSA expanded to also include Clinton and Eaton counties. In 1970 the Flint SMSA expanded to also include Lapeer County and the Grand Rapids SMSA expanded to include Ottawa County. In 1980 the Benton Harbor SMSA was Berrien County, the Battle Creek SMSA was Calhoun and Barry counties, the Detroit SMSA was expanded to also include Lapeer, Livingston and St. Clair counties, the Flint SMSA added Shiawassee county and dropped Lapeer County, the Kalamazoo-Portage SMSA expanded to also include Van Buren County, the Muskegon-Norton Shores-Muskegon Heights SMSA expanded to also include Oceana County, and the Lansing-East Lansing SMSA expanded to also include Ionia County. The Michigan part of the Toledo SMSA was Monroe County.

b. The home value ratio is the median value of the owner-occupied single-dwelling housing unit of the specific Standard Metropolitan Statistical Area divided by the corresponding value for the state of Michigan in the concurrent year.

TABLE II-14. MEDIAN VALUES AND HOME VALUE RATIOS OF OWNER-OCCUPIED SINGLE DWELLING HOUSING UNITS IN SELECT MICHIGAN CITIES: 1950, 1960, 1970 AND 1980

City	1950		1960		1970		1980	
	Median value	Home value ratio[a]	Median value	Home value ratio[a]	Median value	Home value ratio[a]	Median value	Home value ratio[a]
Alpena	$5,141	.69	$10,800	.90	$11,900	.68	$29,100	.75
Ann Arbor	13,151	1.75	18,100	1.51	27,700	1.58	68,700	1.76
Battle Creek	7,324	.98	10,200	.85	11,400	.65	20,600	.53
Bay City	6,165	.82	9,300	.78	12,700	.73	27,900	.72
Benton Harbor	7,173	.96	10,100	.84	11,300	.65	14,500	.37
Birmingham	13,640	1.82	20,200	1.68	31,900	1.82	77,700	1.99
Cadillac	4,801	.64	7,000	.58	9,800	.56	26,100	.67
Cheboygan	4,164	.56	7,100	.59	10,500	.60	25,200	.65
Coldwater	6,201	.83	9,300	.78	11,600	.66	26,300	.67
Dearborn	11,072	1.48	15,900	1.33	22,800	1.30	49,100	1.26
Detroit	9,357	1.25	12,000	1.00	15,600	.89	20,900	.54
Flint	6,970	.93	11,500	.96	14,600	.83	26,200	.67
Grand Blanc	n.a.	n.a.	16,000	1.33	32,700	1.87	68,900	1.77
Grand Rapids	8,498	1.13	11,700	.98	14,800	.85	33,300	.85
Grosse Pointe Farms	20,000	2.67	31,000	2.58	41,200	2.35	91,600	2.35
Holland	7,211	.96	11,500	.96	14,900	.85	40,400	1.04
Jackson	6,762	.90	9,900	.83	11,800	.67	23,500	.60
Kalamazoo	7,330	.98	11,800	.98	14,300	.82	32,800	.84
Midland	9,260	1.24	15,900	1.33	22,100	1.26	51,900	1.33
Mount Clemens	8,060	1.08	12,600	1.05	18,300	1.05	37,800	.97
Mount Pleasant	6,818	.91	12,500	1.04	17,300	.99	40,200	1.03
Muskegon	6,800	.91	9,800	.82	11,300	.65	19,700	.51
Niles	7,226	.96	10,200	.85	13,100	.75	27,400	.70
North Muskegon	n.a.	n.a.	17,400	1.45	22,200	1.27	48,000	1.23
Pontiac	7,000	.93	10,200	.85	15,400	.88	25,500	.65

III. HEALTH AND VITAL STATISTICS

Michigan Heath Statistics, published annually by the Office of Vital and Health Statistics, Michigan Department of Public Health, is the major source of statistics presented here. Births and deaths are estimated on the basis of registrations, which are not complete. In 1950, a test done in connection with the Census of Population revealed that registration of births in Michigan was 98.7 percent complete. The Office of Vital and Health Statistics believes that death registrations exceed birth registrations because a death certificate is required for the issuance of a burial permit. However, delayed registration of births and deaths cause negligible statistical aberrations.

Since 1950 births and deaths among nonresidents, but taking place in Michigan, have been excluded from the state data; births and deaths among Michigan residents taking place in other states or countries are included. Intrastate allocation of births and deaths is on the basis of county of residence. An effort is made to determine the city of residence, but for a large number of births and deaths in each county it is impossible to determine this jurisdiction from the registration form. Live birth and death statistics for counties appear in Table III-16; some related statistics, used in determining net migration for counties, appear in Table I-4.

Annual information about registered hospitals is published in *Hospitals, Journal of the American Hospital Association*. Michigan Department of Public Health compilations exclude federal hospitals and hospitals licensed by the Michigan Department of Mental Health. The latter has jurisdiction over state hospitals for the mentally ill as well as state homes and training schools for the mentally retarded.

Those with a special interest in the death rate from motor vehicle accidents should consult chapter XVII.

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TABLE III-1. LIVE BIRTHS AND DEATHS OF MICHIGAN AND U.S. RESIDENTS: 1955-1983

Year	Michigan		United States	
	Live births	Deaths	Live Births	Deaths
1955	196,294	63,087	4,097,000	1,528,717
1956	206,068	64,352	4,210,000	1,564,476
1957	208,488	66,435	4,300,000	1,633,128
1958	202,690	65,899	4,246,000	1,647,886
1959	198,301	66,812	4,286,000	1,656,814
1960	195,056	67,912	4,257,850	1,711,982
1961	192,825	67,375	4,268,326	1,701,522
1962	182,790	70,049	4,167,362	1,756,720
1963	178,871	72,438	4,098,020	1,813,549
1964	175,103	72,129	4,027,490	1,798,051
1965	166,464	73,665	3,760,358	1,828,136
1966	165,794	74,596	3,606,274	1,863,149
1967	162,756	75,360	3,520,959	1,851,323
1968	159,058	76,855	3,501,564	1,930,082
1969	165,760	76,693	3,600,206	1,921,990
1970	171,667	76,321	3,731,386	1,921,031
1971	162,244	77,395	3,555,970	1,927,542
1972	146,854	79,210	3,258,411	1,963,944
1973	141,550	78,522	3,136,965	1,973,003
1974	137,414	76,143	3,159,958	1,934,388
1975	133,931	74,522	3,144,198	1,892,879
1976	131,378	75,801	3,167,788	1,909,440
1977	138,416	74,144	3,326,632	1,899,597
1978	138,802	74,773	3,333,279	1,927,788
1979	144,452	73,480	3,494,398	1,913,841
1980	145,162	74,991	3,612,258	1,989,841
1981	140,579	75,818	3,629,238	1,977,981
1982	137,950	75,536	3,680,537	1,974,797
1983	133,026	76,639	3,614,000^{p}	2,010,000^{p}

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing: 1985); and National Center for Health Statistics, Vital Statistics of the United States 1978 (Hyattsville, MD: 1982) and Monthly Vital Statistics Report (Hyattsville, MD: annual summary).

p: provisional

TABLE III-2. LIVE BIRTH AND DEATH RATES PER 1,000 POPULATION OF MICHIGAN AND U.S. RESIDENTS: 1955-1983

Year	Michigan		United States	
	Live births	Deaths	Live births	Deaths
1955	27.1	8.7	25.0	9.3
1956	27.4	8.6	25.2	9.4
1957	26.7	8.5	25.3	9.6
1958	25.8	8.4	24.5	9.5
1959	24.9	8.4	24.2	9.4
1960	24.9	8.7	23.7	9.5
1961	24.4	8.5	23.3	9.3
1962	23.0	8.8	22.4	9.5
1963	22.3	9.0	21.7	9.6
1964	21.6	8.9	21.1	9.4
1965	20.3	9.0	19.4	9.4
1966	19.9	9.0	18.4	9.5
1967	18.9	8.7	17.8	9.4
1968	18.3	8.9	17.6	9.7
1969	19.0	8.8	17.9	9.5
1970	19.3	8.6	18.4	9.5
1971	18.1	8.6	17.2	9.3
1972	16.3	8.8	15.6	9.4
1973	15.6	8.7	14.8	9.3
1974	15.1	8.4	14.8	9.1
1975	14.7	8.2	14.6	8.8
1976	14.4	8.3	14.6	8.8
1977	15.1	8.1	15.1	8.6
1978	15.1	8.1	15.0	8.7
1979	15.6	7.9	15.6	8.5
1980	15.7	8.1	15.9	8.8
1981	15.2	8.2	15.8	8.6
1982	15.0	8.2	15.9	8.5
1983	14.5	8.4	15.5^{p}	8.6^{p}

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing: 1985); and National Center for Health Statistics, Vital Statistics of the United States 1978 (Hyattsville, MD: 1982) and Monthly Vital Statistics Report (Hyattsville, MD: monthly).

p: provisional.

TABLE II-14. MEDIAN VALUES AND HOME VALUE RATIOS OF OWNER-OCCUPIED SINGLE DWELLING HOUSING UNITS IN SELECT MICHIGAN CITIES: 1950, 1960, 1970 AND 1980 (cont.)

City	1950		1960		1970		1980	
	Median value	Home value ratio[a]	Median value	Home value ratio[a]	Median value	Home value ratio[a]	Median value	Home value ratio[a]
Port Huron	6,505	.87	8,800	.73	12,300	.70	27,300	.70
Rochester	7,707	1.03	13,500	1.13	20,900	1.19	57,700	1.48
Rogers City	6,244	.83	11,200	.93	12,900	.74	31,300	.80
Royal Oak	9,516	1.27	14,200	1.18	21,300	1.22	44,600	1.14
Saginaw	6,728	.90	10,500	.88	13,700	.78	25,800	.66
St. Joseph	9,764	1.30	14,300	1.19	16,900	.97	36,500	.94
Sault Ste Marie	5,684	.76	9,100	.76	8,700	.50	24,100	.62
Southfield	n.a.	n.a.	18,700	1.56	36,000	2.06	67,200	1.72
Traverse City	5,960	.80	10,400	.87	15,400	.88	42,300	1.08
MICHIGAN	7,496	1.00	12,000	1.00	17,500	1.00	39,000	1.00

SOURCE: Bureau of the Census, 1950 Census of Housing, General Characteristics, Michigan (Washington, D.C.), Tables 1 and 24; same document for 1960, tables 1, 26, and 27; 1970, tables 1 and 24, and 1980 table 1.

[a] The home value ratio is the median value of the owner-occupied single dwelling housing unit of the specific city divided by the corresponding value for the state of Michigan in the concurrent year.

TABLE III-3. FERTILITY RATES, MICHIGAN AND THE UNITED STATES, SELECTED YEARS: 1940-1983

Year	Michigan	United States
1940	78.9	79.9
1950	110.5	106.2
1960	123.1	118.0
1970	91.7	87.9
1971	84.5	81.6
1972	75.1	73.1
1973	71.2	68.8
1974	68.0	67.8
1975	65.5	66.0
1976	63.5	65.0
1977	65.9	66.5
1978	65.0	65.5
1979	66.6	67.2
1980	66.3	68.4
1981	63.2	67.4
1982	61.7	67.3
1983	59.3	65.4^{p}

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing: 1985), Table 1.3; and National Center for Health Statistics, Vital Statistics of the United States 1978 (Hyattsville, MD: 1982); and Monthly Vital Statistics Report (Hyattsville, MD: monthly).
p.: provisional

TABLE III-4. LIVE BIRTHS BY RACE, MICHIGAN RESIDENTS: 1969-1983

	White		Black and other minority races[a]		
Year	Number	Percentage of total births	Number	Percentage of total births	Total
1969	140,222	84.6	25,538	15.4	165,760
1970	143,871	83.8	27,796	16.2	171,667
1971	134,165	82.7	28,079	17.3	162,244
1972	119,787	81.6	27,067	18.4	146,854
1973	114,878	81.2	26,672	18.8	141,550
1974	112,474	81.9	24,940	18.1	137,414
1975	109,718	81.9	24,213	18.1	133,931
1976	107,907	82.1	23,471	17.9	131,378
1977	114,042	82.4	24,374	17.6	138,416
1978	114,217	82.3	24,585	17.7	138,802
1979	118,671	82.2	25,781	17.8	144,452
1980	119,103	82.0	26,059	18.0	145,162
1981	115,972	82.5	24,607	17.5	140,579
1982	113,868	82.5	24,082	17.5	137,950
1983	109,335	82.2	23,601	17.7	133,026

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing: 1985), Table 1.4.
a. Indians from India were counted as "white" from 1970-1977, and with "other" from 1978-1983. Includes race not stated.

TABLE III-5. LIVE BIRTHS, BY LIVE BIRTH ORDER, MICHIGAN RESIDENTS, 1973 AND 1983

Live birth order	Number of births 1973	Number of births 1983	Percentage of total 1973	Percentage of total 1983
First birth	57,411	54,271	40.6	40.8
Second birth	43,094	44,204	30.4	33.2
Third birth	21,102	21,260	14.9	16.0
Fourth birth	9,752	7,903	6.9	5.9
Fifth birth or greater	9,789	4,717	6.9	3.5
Not stated	402	671	0.3	0.5
TOTAL	141,550	133,026	100.0	100.0

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983, (Lansing, 1985).

TABLE III-6. FIRST BIRTHS, MICHIGAN AND U.S. RESIDENTS: 1970-1983

Year	Michigan First births	Michigan Percentage of all births	United States First births	United States Percentage of all births
1970	64,222	37.4	1,430,680	38.3
1971	60,413	37.2	1,375,668	38.7
1972	57,477	39.1	1,289,257	39.6
1973	57,411	40.6	1,243,358	39.6
1974	56,223	40.9	1,314,194	41.6
1975	55,348	41.3	1,319,126	42.0
1976	54,003	41.1	1,324,811	41.8
1977	56,622	40.9	1,387,143	41.7
1978	57,767	41.6	1,401,491	42.0
1979	60,424	41.8	1,479,260	42.3
1980	61,516	42.4	1,545,604	42.8
1981	59,105	42.0	1,553,665	42.8
1982	56,879	41.2	1,555,627	42.3
1983	54,271	40.8	n.a.	n.a.

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing: 1985), Table 1.9; and Monthly Vital Statistics Report (Hyattsville, MD: advance report, 1982).

n.a.: not available.

TABLE III-7. LIVE BIRTH AND LIVE BIRTH RATES, BY AGE OF MOTHER, MICHIGAN RESIDENTS: 1969-1983

Year	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 and older[a]	Total fertility rate[b]
					Number				
1969	421	28,061	63,376	44,615	18,535	8,157	2,433	134	
1970	489	29,764	65,892	46,262	19,003	7,904	2,223	118	
1971	472	28,480	62,367	43,639	18,258	6,975	1,926	113	
1972	503	28,108	54,199	40,442	16,133	5,805	1,555	95	
1973	569	27,808	51,284	39,845	15,520	5,163	1,277	62	
1974	501	25,977	49,975	40,215	15,317	4,291	1,063	50	
1975	463	24,509	48,675	40,061	14,891	4,273	982	54	
1976	404	22,593	47,161	41,412	14,893	4,053	799	47	
1977	426	22,585	49,740	43,346	17,293	4,178	771	51	
1978	345	21,487	49,498	43,744	18,367	4,562	729	50	
1979	355	21,239	51,319	46,084	19,962	4,720	715	41	
1980	331	20,000	51,218	47,113	21,024	4,692	740	22	
1981	300	18,397	47,737	46,527	22,178	4,701	695	34	
1982	319	17,344	45,586	45,995	22,564	5,395	711	29	
1983	328	16,589	42,034	45,065	22,505	5,669	791	38	
					Live Birth Rates per 1,000 Women				
1969	0.9	66.0	174.2	150.8	73.8	33.1	9.1	0.5	2,542.0
1970	1.0	68.2	176.2	154.2	76.2	32.4	8.3	0.4	2,584.5
1971	1.0	64.7	161.7	138.6	69.1	27.9	7.2	0.4	2,353.0
1972	1.1	63.7	137.6	124.1	58.6	22.8	5.9	0.4	2,071.0
1973	1.2	62.8	127.5	118.3	54.2	19.9	4.9	0.2	1,945.0
1974	1.1	58.5	121.9	115.7	51.5	16.3	4.1	0.2	1,846.5
1975	1.1	55.3	117.0	112.3	48.4	16.0	3.9	0.2	1,771.0
1976	0.9	51.1	111.6	113.0	46.9	15.0	3.2	0.2	1,709.5
1977	1.0	50.9	115.5	114.9	52.6	15.2	3.1	0.2	1,767.0
1978	0.8	48.3	112.7	112.6	54.0	16.3	3.0	0.2	1,739.5
1979	0.9	47.6	114.6	115.2	56.7	16.6	3.0	0.2	1,774.0
1980	0.8	44.8	113.1	115.6	58.4	16.4	3.1	0.1	1,761.5
1981	0.8	42.7	105.4	112.1	58.0	15.9	2.9	0.2	1,690.0
1982	0.9	39.2	98.0	107.6	59.2	18.4	3.1	0.1	1,632.5
1983	0.9	37.9	89.8	104.0	58.0	19.3	3.6	0.2	1,568.5

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing, 1985).

NOTE: Live birth rates are per 1,000 women in specified age group.

a. Rate calculated as number of live births to women aged 45 and over per 1,000 women 45-49 years of age.
b. Total fertility rate is total children to 1,000 women in their lifetime assuming constant live birth rates.

TABLE III-8. INFANT, NEONATAL, POSTNEONATAL, PERINATAL, FETAL, AND MATERNAL DEATHS, MICHIGAN RESIDENTS: 1955-1983

Year	Under 1 year	Under 28 days	28-364 days	Perinatal	Fetal	Maternal
1955	4,873	3,707	1,166	6,381	3,029	61
1956	5,047	3,796	1,251	6,655	3,245	84
1957	5,093	3,884	1,209	6,668	3,154	79
1958	4,980	3,789	1,191	6,516	3,101	69
1959	4,846	3,674	1,172	6,250	2,928	72
1960	4,702	3,580	1,122	6,247	3,008	75
1961	4,604	3,475	1,129	5,875	2,735	78
1962	4,367	3,251	1,116	5,669	2,703	56
1963	4,150	3,109	1,041	5,407	2,540	71
1964	4,043	3,071	972	5,293	2,466	62
1965	3,936	2,909	1,027	5,139	2,475	54
1966	3,751	2,830	921	4,909	2,295	54
1967	3,595	2,714	881	4,693	2,195	52
1968	3,438	2,617	821	4,476	2,064	44
1969	3,356	2,550	806	4,488	2,175	27
1970	3,492	2,683	809	4,522	2,060	29
1971	3,157	2,412	745	4,139	1,923	32
1972	2,801	2,115	686	3,700	1,770	35
1973	2,561	1,902	659	3,392	1,682	26
1974	2,387	1,734	653	2,947	1,438	19
1975	2,205	1,563	642	2,673	1,356	16
1976	1,978	1,424	554	2,495	1,264	14
1977	1,945	1,367	578	2,452	1,284	11
1978	1,931	1,281	650	2,302	1,201	15
1979	1,921	1,295	626	2,285	1,175	11
1980	1,851	1,284	567	2,235	1,135	16
1981	1,851	1,281	570	2,151	1,040	7
1982	1,672	1,202	470	1,988	953	11
1983	1,573	1,067	506	1,753	843	6

SOURCE: Michigan Department of Public Health, Michigan Health Statistics 1983 (Lansing, 1985), Table 4.1.

TABLE III-9. NUMBER OF DEATHS BY SIX LEADING CAUSES AMONG MICHIGAN RESIDENTS: 1955-1983

Year	Heart disease	Cancer (all forms)	Cerebro-vascular disease	Accidents		Diabetes	Pneumonia and Influenza
				Motor vehicle	All forms		
1955	23,440	10,297	7,362	2,129	4,213	1,415	1,599
1956	24,661	10,489	7,114	1,826	3,925	1,443	1,779
1957	25,369	10,810	7,632	1,680	3,643	1,510	2,237
1958	25,215	10,946	7,547	1,466	3,306	1,595	2,209
1959	25,323	11,113	7,700	1,587	3,666	1,715	1,920
1960	25,728	11,331	7,682	1,710	3,688	1,784	2,224
1961	25,519	11,476	7,745	1,656	3,692	1,778	1,762
1962	27,226	11,752	7,783	1,668	3,758	1,908	1,954
1963	27,483	12,078	8,168	2,005	4,033	2,049	2,229
1964	27,496	12,087	7,940	2,286	4,416	2,055	1,754
1965	28,134	12,419	7,769	2,271	4,494	2,153	2,086
1966	28,277	12,506	7,732	2,407	4,737	2,243	2,085
1967	28,757	13,030	7,846	2,265	4,519	2,182	2,051
1968	29,680	13,292	7,913	2,466	4,603	2,298	2,577
1969	29,396	13,328	7,706	2,579	4,766	2,188	2,439
1970	29,204	13,551	7,691	2,309	4,428	2,180	2,101
1971	30,095	13,594	7,826	2,274	4,426	2,103	2,058
1972	30,865	14,045	7,999	2,450	4,566	2,222	2,201
1973	29,944	14,220	7,987	2,389	4,630	2,074	2,090
1974	29,220	14,241	7,645	1,929	4,211	1,940	1,698
1975	28,298	14,445	7,262	1,841	4,002	1,819	1,825
1976	29,233	14,830	7,354	1,993	3,912	1,719	2,106
1977	28,895	15,125	6,818	1,993	3,945	1,615	1,660
1978	29,406	15,249	6,520	2,138	3,970	1,551	2,003
1979	29,296	15,409	6,067	1,967	3,839	1,449	1,475
1980	29,790	15,828	6,164	1,880	3,627	1,467	1,808
1981	30,172	16,142	6,121	1,727	3,390	1,487	1,716
1982	30,099	16,566	5,839	1,555	3,113	1,347	1,701
1983	30,412	16,785	5,721	1,419	2,947	1,470	2,102

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing: 1985), Table 4.8 and Table 4.14.

TABLE III-10. NUMBER OF DEATHS AMONG MICHIGAN RESIDENTS, BY SIXTEEN LEADING CAUSES[a], BY SEX AND AGE GROUP: 1983

Cause	Sex[b]			Age group					
	Male	Female	Total	Under 1 year	1-19 years	20-44 years	45-64 years	65 and over	Not stated
Diseases of heart	15,870	14,542	30,412	29	41	690	5,777	23,874	1
Cancer	9,122	7,663	16,785	5	130	761	5,475	10,414	--
Cerebrovascular	2,324	3,397	5,721	2	14	154	753	4,798	--
Accident & adverse effects	2,047	900	2,947	41	535	1,098	495	778	--
Chronic obstructive pulmonary diseases[c] and allied conditions	1,582	884	2,466	--	12	34	450	1,970	--
Pneumonia and Influenza	1,067	1,035	2,102	14	11	71	241	1,765	--
Diabetes Mellitus	590	880	1,470	00	2	106	335	1,027	--
Atherosclerosis	459	810	1,269	--	--	--	56	1,213	--
Chronic Liver disease and cirrhosis	850	400	1,250	1	1	210	619	419	--
Suicide	841	243	1,084	--	70	544	303	167	--
Certain conditions originating in the perinatal period	465	383	854	848	6	--	--	--	--
Homicide & legal intervention	750	207	957	7	136	619	151	44	--
Nephritis, nephrotic syndrome, & nephrosis	344	360	704	6	4	36	114	544	--
Congenital anomalies	248	241	491	286	77	52	41	35	--
Septicemia	253	259	512	7	4	25	100	376	--
Hypertension with or without renal disease	138	168	306	--	1	7	47	251	--
All other causes	3,837	3,472	7,309	327	197	715	1,359	4,710	1
TOTAL	40,787	35,844	76,639	1,573	1,241	5,122	16,316	52,385	2

SOURCE: Michigan Department of Public Health, special release.

a. Cause of death ranking is based on the list of 72 Selected Causes of Death used by the National Center for Health Statistics beginning in 1979.

b. Male and female deaths do not add to total due to eight deaths with sex unknown.

c. Includes bronchitis, emphysema, asthma, and other chronic obstructive pulmonary diseases and allied conditions.

TABLE III-11. DEATH RATES AMONG MICHIGAN RESIDENTS, BY AGE AND SEX[a]: 1982 AND 1983

Age	1982			1983		
	Male	Female	Total	Male	Female	Total
All ages	907.2	734.5	818.6	915.2	763.0	837.1
Under 1 year	1,370.8	1,003.7	1,190.8	1,244.4	1,047.9	1,148.0
1-14 years	40.1	28.1	34.2	38.0	28.7	33.5
15-24 years	117.0	45.9	81.6	120.8	41.0	81.2
25-34 years	178.8	76.2	126.8	171.8	72.1	121.3
35-44 years	293.6	160.2	225.7	297.7	158.5	226.8
45-54 years	720.7	397.3	554.3	697.0	391.9	540.0
55-64 years	1,708.2	936.1	1,299.8	1,697.8	966.2	1,310.0
65-74 years	4,185.9	2,249.4	3,094.7	4,309.4	2,312.6	3,181.6
75-84 years	9,320.6	5,513.4	6,928.7	9,530.5	5,578.0	7,036.4
85 and over	19,334.5	14,530.8	15,984.3	18,631.4	15,187.6	16,219.2

SOURCE: Michigan Department of Public Health, *Michigan Health Statistics, 1983*, (Lansing: 1985), Table 2.5.

NOTE: Rates per 100,000 population.

a. Deaths with sex or race not stated were randomly allocated prior to computation of age-specific death rates. Deaths with age not stated were included in the category 85 and over.

TABLE III-12. DEATHS FROM ACCIDENTS BY EXTERNAL CAUSE OF INJURY, MICHIGAN RESIDENTS: 1975-1983[a]

Cause of injury	1975	1976	1977	1978	1979	1980	1981	1982	1983
Transport, total	1,961	2,093	2,094	2,237	2,076	1,979	1,819	1,645	1,502
Motor vehicle	1,841	1,993	1,993	2,138	1,967	1,880	1,727	1,555	1,419
Railroad	10	9	8	13	9	5	5	15	8
Other road vehicle, nontraffic	4	6	2	2	6	10	5	7	5
Water transportation	56	35	33	58	40	42	35	41	48
Air transportation	50	50	58	26	52	40	47	26	22
Other vehicle accidents	--	--	--	--	2	2	--	1	--
Nontransport, total	1,978	1,763	1,781	1,663	1,662	1,557	1,507	1,395	1,358
Poisoning	246	223	156	162	159	148	149	176	141
Falls	618	580	564	537	549	485	468	428	475
Blow from falling object	32	35	45	34	46	43	33	34	20
Machinery	32	22	21	19	38	43	55	37	42
Electric current	46	30	55	30	28	36	29	23	20
Fire and explosion of combustible material	274	251	311	245	276	234	249	210	193
Hot substance or object, caustic or corrosive material & steam	12	5	3	11	8	9	10	3	6
Firearm	67	53	60	37	58	53	51	34	32
Inhalation or ingestion of food or other object	139	143	105	141	144	137	129	145	117
Mechanical suffocation	38	41	28	38	44	37	37	22	37
Drowning or submersion	293	235	238	205	185	213	183	163	172
Other causes	181	145	195	204	127	119	114	120	103
Surgical & medical misadventures & late complications, late effects of injury and poisoning[b]	63	56	70	70	101	91	64	73	87
TOTAL	4,002	3,912	3,945	3,970	3,839	3,627	3,390	3,113	2,947

SOURCE: Michigan Department of Public Health, special release.

a. Deaths in 1979-1983 are coded by the 9th Revision International Classification of Diseases, WHO, while those in 1975-1978 were coded by the 8th Revision International Classification of Diseases, Adapted, National Center for Health Statistics. Comparability ratios are not available so comparisons of death rates for these categories between years prior to 1979 and years since 1979 should be made with caution.

b. 9th Revision ICD codes used are E870-E879 and E929-E949. 8th Revision ICDA codes used are E930-E949.

TABLE III-13. LIFE EXPECTANCY AT BIRTH, BY SEX, MICHIGAN AND U.S. RESIDENTS, SELECTED YEARS: 1920-1983

	Michigan[a]		United States	
Year	Male life expectancy	Female life expectancy	Male life expectancy	Female life expectancy
1920	55.1	56.0	53.6	54.6
1930	59.8	62.8	58.1	61.6
1940	63.4	67.4	60.8	65.2
1950	65.7	71.2	65.6	71.1
1960	67.1	73.3	66.6	73.1
1970	67.2	74.6	67.1	74.8
1971	67.3	74.9	67.4	75.0
1972	67.3	74.9	67.4	75.1
1973	67.4	75.0	67.6	75.3
1974	68.0	75.3	68.1	75.8
1975	68.5	75.7	68.7	76.5
1976	69.0	75.9	69.0	76.7
1977	69.3	76.3	69.3	77.1
1978	69.6	76.4	69.5	77.2
1979	70.0	76.8	69.9	77.6
1980	70.0	76.9	70.0	77.5
1981	70.2	76.9	70.4[b]	77.9[b]
1982	70.4	77.2	70.8[b]	78.2[b]
1983	70.5	77.1	71.0[b]	78.3[b]

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing: 1985), Table 2.70.

a. Michigan data for 1920, 1930, and 1940 are for white only.

b. Estimate based on a 10 percent sample of deaths.

TABLE III-14. LIFE EXPECTANCY AT BIRTH, BY SEX AND RACE, MICHIGAN RESIDENTS: 1950, 1960, 1970, AND 1983

Population subgroup	1950	1960	1970	1983
White				
Female	71.9	74.0	75.3	77.8
Male	66.2	67.5	68.2	71.4
Total white	68.8	70.5	71.6	74.6
All other				
Female	63.4	67.7	69.4	72.9
Male	60.4	63.6	61.0	64.8
Total all other	61.8	65.6	65.0	68.9
Total				
Female	71.2	73.3	74.6	77.1
Male	65.7	67.1	67.2	70.5
Total population	68.3	70.0	70.8	73.8

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing: 1985), Table 2.71.

TABLE III-16. LIVE BIRTHS AND DEATHS AMONG MICHIGAN RESIDENTS, BY COUNTY: 1982 AND 1983

	Live births				Deaths			
	Number		Rate[a]		Number		Rate[a]	
County	1982	1983	1982	1983	1982	1983	1982	1983
Alcona	107	98	10.8	9.8	112	126	11.3	12.6
Alger	127	131	14.1	15.1	99	105	11.0	12.1
Allegan	1,333	1,322	15.9	16.0	644	658	7.7	8.0
Alpena	471	438	14.6	13.8	303	290	9.4	9.2
Antrim	272	223	16.2	13.4	186	182	11.1	10.9
Arenac	241	205	15.8	13.5	157	166	10.3	10.9
Baraga	119	107	13.8	12.7	100	112	11.6	13.3
Barry	672	662	14.4	14.4	374	337	8.0	7.3
Bay	1,816	1,723	15.2	14.7	961	968	8.0	8.2
Benzie	166	175	15.1	15.9	122	123	11.1	11.2
Berrien	2,496	2,538	14.9	15.3	1,463	1,471	8.7	8.9
Branch	650	650	16.4	16.6	342	388	8.6	9.9
Calhoun	2,123	1,940	15.0	13.9	1,268	1,317	8.9	9.4
Cass	625	665	13.0	14.1	384	425	8.0	9.0
Charlevoix	337	326	17.1	16.4	186	206	9.5	10.4
Cheboygan	317	330	15.1	15.6	246	186	11.7	8.8
Chippewa	384	367	13.0	12.6	279	302	9.4	10.4
Clare	360	350	14.9	14.3	277	292	11.4	12.0
Clinton	865	859	15.6	15.7	314	308	5.7	5.6
Crawford	168	168	17.6	17.2	86	97	9.0	9.9
Delta	625	584	15.7	14.8	373	338	9.4	8.5
Dickinson	362	357	14.2	14.1	281	329	11.0	13.0
Eaton	1,196	1,222	13.5	13.9	584	561	6.6	6.4
Emmet	333	345	14.0	14.5	202	240	8.5	10.1
Genesee	7,019	6,660	15.7	15.0	3,330	3,385	7.5	7.6
Gladwin	300	322	14.6	15.2	200	207	9.7	9.8
Gogebic	232	190	11.8	9.7	283	252	14.4	12.9
Grand Traverse	895	882	15.8	15.6	438	429	7.7	7.6
Gratiot	620	628	15.6	15.7	400	407	10.0	10.2
Hillsdale	634	596	15.2	14.3	366	367	8.8	8.8
Houghton	529	499	13.8	12.9	456	424	11.9	10.9
Huron	570	543	15.6	15.2	362	378	9.9	10.6
Ingham	4,372	4,365	15.9	15.9	1,614	1,641	5.9	6.0
Ionia	951	888	18.1	17.0	398	383	7.6	7.3
Iosco	594	569	19.7	18.6	278	305	9.2	10.0
Iron	159	177	11.8	13.0	172	221	12.8	16.3
Isabella	698	737	12.8	13.5	327	299	6.0	5.5
Jackson	2,146	2,006	14.3	13.6	1,254	1,313	8.4	8.9
Kalamazoo	3,223	2,989	14.8	13.7	1,459	1,539	6.7	7.1
Kalkaska	221	211	19.5	18.6	99	90	8.7	7.9
Kent	8,335	8,215	18.3	17.8	3,376	3,578	7.4	7.8
Keweenaw	22	21	10.9	10.5	49	32	24.2	16.0
Lake	109	104	13.1	12.2	120	121	14.4	14.2

TABLE III-16. LIVE BIRTHS AND DEATHS AMONG MICHIGAN RESIDENTS, BY COUNTY: 1982 AND 1983

County	Live births				Deaths			
	Number		Rate[a]		Number		Rate[a]	
	1982	1983	1982	1983	1982	1983	1982	1983
Lapeer	1,100	991	15.7	14.4	468	432	6.7	6.3
Leelanau	201	193	13.7	13.6	137	135	9.3	9.5
Lenawee	1,283	1,352	14.4	15.3	682	717	7.6	8.1
Livingston	1,341	1,337	13.5	13.8	570	590	5.7	6.1
Luce	89	78	14.2	13.0	82	53	13.1	8.8
Mackinac	134	142	13.2	14.1	111	126	10.9	12.5
Macomb	9,484	8,957	13.7	13.0	4,756	4,978	6.9	7.2
Manistee	305	250	13.6	11.3	246	286	11.0	12.9
Marquette	1,263	1,202	16.8	16.5	491	522	6.6	7.1
Mason	400	348	14.9	13.2	263	295	9.8	11.2
Mecosta	446	411	11.9	11.2	223	277	5.9	7.6
Menominee	402	389	15.5	15.2	267	284	10.3	11.1
Midland	1,157	1,136	15.7	15.3	447	438	6.1	5.9
Missaukee	203	180	19.6	17.5	90	86	8.7	8.4
Monroe	1,775	1,813	13.5	14.1	887	987	6.8	7.7
Montcalm	803	781	16.4	15.8	416	454	8.5	9.2
Montmorency	112	103	15.2	13.1	105	96	14.2	12.2
Muskegon	2,538	2,482	16.2	15.9	1,326	1,334	8.4	8.5
Newaygo	548	550	15.1	15.3	360	308	9.9	8.6
Oakland	13,840	13,304	13.7	13.2	7,420	7,377	7.3	7.3
Oceana	386	382	17.7	17.7	187	202	8.6	9.4
Ogemaw	281	253	17.1	15.4	203	216	12.4	13.1
Ontonagon	106	116	10.5	11.6	123	102	12.2	10.2
Osceola	294	312	15.1	15.9	171	192	8.8	9.8
Oscoda	110	112	15.4	16.5	95	109	13.3	16.0
Otsego	253	265	16.8	17.3	141	154	9.3	10.1
Ottawa	2,617	2,759	16.4	17.1	993	1,028	6.2	6.4
Presque Isle	189	180	13.4	13.6	161	154	11.4	11.0
Roscommon	236	209	13.2	11.8	222	225	12.5	12.7
Saginaw	3,555	3,267	15.8	14.8	1,652	1,711	7.4	7.7
St. Clair	2,056	1,966	14.8	14.2	1,217	1,190	8.8	8.6
St. Joseph	915	891	15.8	15.7	505	482	8.7	8.5
Sanilac	654	634	16.4	16.1	403	378	10.1	9.6
Schoolcraft	114	118	13.5	14.1	103	97	12.2	11.6
Shiawassee	1,077	1,000	15.5	14.6	535	458	7.7	6.7
Tuscola	852	768	15.2	13.9	447	434	8.0	7.9
Van Buren	1,073	1,040	15.9	15.5	588	607	8.7	9.0
Washtenaw	3,874	3,784	14.5	14.1	1,441	1,460	5.4	5.4
Wayne	33,647	32,174	14.7	14.3	22,410	22,506	9.8	10.0
Wexford	424	399	16.2	15.3	254	258	9.7	9.9
Not stated	19	1	--	--	14	3	--	--
MICHIGAN	137,950	133,026	15.0	14.5	75,536	76,639	8.2	8.4

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing, 1985), Table 4.9-4.10.

a. Rate per 1,000 population.

TABLE III-19. PATIENTS, RESIDENTS AND NUMBER OF EMPLOYEES IN STATE MENTAL HEALTH FACILITIES: 1955-1983

End of Fiscal year	Patients in state psychiatric hospitals	Employees in state psychiatric hospitals	Residents in centers for developmental disabilities	Employees in centers for developmental disabilities	Total patients and residents	Total employees in state facilities
1955	17,075	4,997	9,025	2,475	26,100	7,472
1960	19,059	5,656	11,261	3,193	30,320	9,569
1965	17,053	6,275	12,516	4,882	29,569	11,157
1970	11,134	7,698	11,844	6,338	22,978	14,036
1975	4,925	7,399	6,537	5,902	11,462	13,301
1976	4,354	6,620	6,191	6,434	10,545	13,054
1977	4,405	7,098	6,047	7,196	10,452	14,294
1978	4,779	7,657	5,728	7,850	10,507	15,507
1979	4,712	7,904	5,142	8,474	9,854	16,378
1980	4,527	7,803	4,371	7,153	8,898	14,956
1981	4,481	6,113	3,574	5,561	8,055	11,674
1982	4,383	6,158	2,973	4,641	7,356	10,799
1983	4,235	6,481	2,594	4,330	6,829	10,811
1984	4,391	6,586	2,376	4,173	6,767	10,759

SOURCE: Michigan Department of Mental Health, special release.

TABLE III-15. REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES IN MICHIGAN, SELECTED PERIODS: 1930-1983

Disease	Annual average				Annual total			
	1930-1939	1940-1949	1950-1959	1960-1969	1980	1981	1982	1983
Diphtheria	1,121	245	66	2	1	0	0	0
Scarlet fever[a]	15,860	7,553	6,745	11,656	24,808	13,529	12,302	11,157
Smallpox	445	26	0	0	0	0	0	0
Typhoid fever	373	85	31	9	12	26	14	10
Whooping cough	11,815	8,676	3,464	884	38	30	34	43
Measles	28,467	29,939	28,907	21,569	250	34	64	8
Hepatitis[b] (includes infectious, serum & unsp.	0	44	748	2,798	1,799	1,700	1,745	1,788
Tuberculosis[c] (all forms)	5,897	5,967	5,559	3,181	1,168	931	864	790
Meningococcal infections[d]	190	257	164	127	77	93	81	91
Poliomyelitus	393	844	1,593	18	1	0	0	0
Syphilis	10,670	13,726	5,495	4,824	1,163	1,053	921	731
Gonorrhea	6,931	10,176	8,858	13,612	34,951	32,524	32,848	34,065
Chancroid	180	277	106	99	50	32	26	19

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1983 (Lansing: 1985), Table 4.5

a. Streptococcal sore throat including scarlet fever.
b. No cases tabulated prior to 1945. Figure shown for the period 1940-1949 is average of 1945-1949.
c. Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, case counts and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.
d. Prior to 1952 data were for meningococcic meningitis.

TABLE III-17. MARRIAGES IN MICHIGAN, BY ORDER OF MARRIAGE AND AGE OF BRIDE AND GROOM: 1983

	Bride, order of marriage						Groom, order of marriage					
Age	First	Second	Third	Fourth or more	Not stated	Total	First	Second	Third	Fourth or more	Not stated	Total
Under 15	9	0	0	0	1	10	0	0	0	0	0	0
15	68	0	0	0	5	73	1	0	0	0	0	1
16	853	1	0	0	2	856	47	0	0	0	0	47
17	1,745	3	0	0	3	1,751	348	0	0	0	1	349
18	4,375	28	1	0	1	4,405	1,526	2	0	0	3	1,531
19	5,607	76	3	0	2	5,688	2,872	7	0	0	1	2,880
20-24	26,934	2,538	92	2	14	29,580	25,467	1,046	20	0	9	26,542
25-29	10,331	5,310	662	82	3	16,388	15,544	4,300	320	16	2	20,182
30-34	2,428	4,563	1,051	169	1	8,212	4,286	4,920	871	88	2	10,167
35-39	558	2,857	907	256	0	4,578	1,074	3,786	1,076	207	1	6,144
40-44	167	1,643	679	223	0	2,712	321	2,249	829	236	0	3,635
45-49	88	1,003	373	149	0	1,613	152	1,429	570	189	0	2,340
50-54	49	667	240	77	0	1,033	80	993	419	131	1	1,624
55-59	28	398	171	58	0	655	73	770	319	118	0	1,280
60-64	23	428	132	26	0	609	52	524	218	57	0	851
65-69	12	250	97	28	1	388	23	424	153	24	1	625
70-74	3	146	44	14	0	207	9	252	83	34	0	378
75 and over	1	78	57	11	0	147	9	209	84	21	0	323
Not stated	3	0	2	0	0	5	7	4	0	0	0	11
MICHIGAN TOTAL	53,282	19,989	4,511	1,095	33	78,910	51,891	20,915	4,962	1,121	21	78,910

SOURCE: Michigan Department of Public Health, special release.

TABLE III-18. NUMBER AND RATE OF MARRIAGES AND DIVORCES TAKING PLACE IN MICHIGAN AND THE UNITED STATES: 1964-1983

	Michigan				United States[a]			
Year	Number of marriages	Rate	Number of divorces	Rate	Number of marriages	Rate[b]	Number of divorces	Rate
1964	73,911	9.1	19,400	2.4	1,725,000	9.0	450,000	2.4
1965	81,247	9.9	20,305	2.5	1,800,000	9.3	479,000	2.5
1966	83,903	10.1	21,727	2.6	1,857,000	9.5	499,000	2.5
1967	84,363	9.8	23,620	3.0	1,927,000	9.7	523,000	2.6
1968	90,984	10.5	25,400	3.0	2,069,000	10.4	584,000	2.9
1969	93,392	10.7	28,347	3.3	2,145,000	10.6	639,000	3.2
1970	91,933	10.4	29,934	3.4	2,158,802	10.6	708,000	3.5
1971	92,134	10.3	31,790	3.5	2,190,481	10.6	773,000	3.7
1972	94,447	10.5	35,505	3.9	2,282,154	10.9	845,000	4.0
1973	94,486	10.4	37,128	4.1	2,284,108	10.8	915,000	4.3
1974	88,023	9.7	39,940[c]	4.4[c]	2,229,667	10.5	977,000	4.6
1975	82,856	9.1	40,782	4.5	2,152,662	10.0	1,036,000	4.8
1976	82,753	9.1	43,101	4.7	2,154,807	9.9	1,083,000	5.0
1977	86,088	9.4	43,036	4.7	2,178,367	9.9	1,091,000	5.0
1978	88,333	9.6	45,029	4.9	2,282,272	10.3	1,130,000	5.1
1979	89,450	9.7	44,242	4.8	2,331,337	10.4	1,181,000	5.3
1980	86,898	9.4	45,047	4.9	2,390,252	10.6	1,189,000	5.2
1981	85,252	9.2	43,167	4.7	2,422,145	10.6	1,213,000	5.3
1982	82,633	9.0	39,739	4.3	2,495,000[p]	10.8[p]	1,170,000	5.0
1983	78,910	8.6	37,991	4.2	2,444,000[p]	10.5[p]	1,179,000[p]	5.0[p]

SOURCE: Michigan Department of Public Health, *Michigan Health Statistics, 1983* (Lansing: 1985), Table 4.1; and National Center for Health Statistics, *Vital Statistics of the United States, 1978*, vol. 3, *Marriage and Divorce* (Hyattsville, MD: 1982), and *Monthly Vital Statistics Report*, (Hyattsville, MD: monthly).

a. United States rates for 1971-1979 have been revised using population estimates based on the 1980 census enumeration.

b. Beginning with 1978, marriage data for the United States included nonlicensed marriages registered in California.

c. Estimate

p.: provisional.

TABLE III-20. BOOK CENSUS OF PATIENTS IN STATE REGIONAL PSYCHIATRIC HOSPITALS, FISCAL YEARS ENDED SEPTEMBER 30, 1983 AND 1984

		Book census, September 30					
		Residents[a]		Nonresidents[b]		Total	
Name of institution	Location	1983	1984	1983	1984	1983	1984
Arnell Engstrom	Traverse City	n.a.	32	n.a.	0	n.a.	32
Caro Regional Mental Health Center	Caro	13	48	1	0	14	48
Center for Forensic Psychiatry	Ann Arbor	225	226	5	4	225	230
Clinton Valley Center	Pontiac	519	503	128	121	647	624
Detroit Psychiatric Institute	Detroit	144	177	43	29	187	206
Fairlawn Center	Pontiac	146	125	102	144	248	269
Hawthorne Center	Northville	111	128	125	102	236	230
Kalamazoo Regional Psychiatric Center	Kalamazoo	625	684	121	89	745	773
Lafayette Clinic	Detroit	92	118	54	48	146	166
Newberry Regional Mental Health Center	Newberry	82	78	23	23	105	101
Northville Regional Psychiatric Hospital	Northville	991	1,070	142	23	1,133	1,093
Pheasant Ridge	Kalamazoo	n.a.	30	n.a.	15	n.a.	45
Walter P. Reuther Psychiatric Hospital	Westland	314	290	3	9	317	299
Traverse City Regional Psychiatric Hospital	Traverse City	182	182	0	0	182	182
York Woods	Ypsilanti	n.a.	62	n.a.	15	n.a.	77
Ypsilanti Regional Psychiatric Hospital	Ypsilanti	651	638	122	76	771	714
MICHIGAN		4,095	4,391	969	698	4,956	5,089

SOURCE: Michigan Department of Mental Health, special release.

NOTE: Facilities for mentally ill.
a. In house and on authorized or unauthorized leave.
b. Community living facilities, foster family care, and convalescent status.

TABLE III-22. UTILIZATION OF COMMUNITY HOSPITALS IN MICHIGAN: 1967-1983

Year	Hospitals[a]	Beds	Admissions	Occupancy (percent)	Average daily census
1967	199	32,063	1,104,893	80.6	25,848
1968	198	32,426	1,099,034	81.2	26,339
1969	200	32,802	1,138,246	81.5	26,743
1970	197	33,136	1,149,799	80.4	26,625
1971	199	33,851	1,174,859	79.5	26,928
1972	201	35,464	1,229,295	79.5	28,186
1973	202	36,447	1,266,177	79.5	28,962
1974	211	38,120	1,354,383	79.9	30,447
1975	210	39,089	1,383,654	79.4	31,021
1976	210	39,695	1,394,464	77.5	30,755
1977	212	40,146	1,426,706	76.7	30,812
1978	207	40,097	1,417,078	76.4	30,639
1979	239	50,255	1,492,926	78.4	39,420
1980	236	49,369	1,508,201	80.0	39,509
1981	236	48,963	1,496,638	79.5	38,926
1982	233	48,328	1,466,733	78.8	38,085
1983	231	47,812	1,449,738	78.4	37,486

SOURCE: American Hospital Association, Hospital Statistics 1972 through 1984 (Chicago: annually) Table 5C; and American Hospital Association, Hospitals, Journal of the American Hospital Association, Guide Issue, 1967 through 1971 (Chicago: annually).

a. Hospitals accepted for registration by the American Hospital Association; excludes hospital units of institutions.

IV. EDUCATION

The Michigan Department of Education's Michigan Educational Statistics and Fact Book on Higher Education are the sources of most data relating to the educational system in this state. The department publishes numerous other items, among them Bulletin 1011. Many statistics about education for the states and nation are published by the U.S. Office of Education.

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TABLE IV-1. EDUCATIONAL ATTAINMENT OF THE POPULATION 25 YEARS OLD AND OVER IN MICHIGAN, BY COUNTY: CENSUS 1980

County	Population 25 & over	Percentage		Non-white population 25 & over	Percentage	
		High school graduates	College graduates		High school graduates non-white	College graduates non-white
Alcona	6,398	59.1	6.9	40	60.0	20.0
Alger	5,548	63.1	9.4	121	57.0	4.1
Allegan	45,789	64.7	10.1	1,465	42.3	4.9
Alpena	18,272	63.8	8.8	91	41.7	.0
Antrim	9,824	68.2	11.8	69	50.7	4.3
Arenac	8,625	53.3	6.2	51	35.2	.0
Baraga	5,035	65.8	8.2	370	60.5	8.9
Barry	26,506	69.4	10.4	349	57.5	7.4
Bay	67,524	64.4	8.9	1,425	57.7	12.3
Benzie	6,779	67.3	12.2	125	48.8	5.6
Berrien	98,331	64.8	13.3	11,512	43.6	8.4
Branch	23,255	65.3	8.7	168	31.5	3.5
Calhoun	83,277	67.7	11.8	7,859	58.2	7.9
Cass	29,011	63.3	8.0	2,542	45.5	4.0
Charlevoix	11,636	69.3	13.1	204	48.0	5.3
Cheboygan	12,257	64.4	9.1	130	43.0	8.4
Chippewa	16,509	64.6	11.0	1,342	49.4	2.4
Clare	14,538	57.8	6.4	130	55.3	.0
Clinton	30,256	72.9	11.3	482	65.9	12.0
Crawford	5,533	70.9	9.5	82	67.0	.0
Delta	22,586	68.7	10.4	276	50.3	9.4
Dickinson	15,870	69.4	10.4	31	80.6	19.3
Eaton	49,269	78.0	15.8	1,638	74.6	22.4
Emmet	13,491	75.4	17.5	319	49.2	2.8
Genesee	244,826	67.7	10.9	39,377	57.9	7.2
Gladwin	12,028	57.4	6.0	80	63.7	5.0
Gogebic	12,941	65.6	9.5	243	55.1	6.9
Grand Traverse	31,536	77.1	19.0	320	61.8	9.6
Gratiot	22,362	69.4	11.0	342	54.6	13.4
Hillsdale	23,851	68.6	9.8	142	58.4	9.8
Houghton	20,142	63.2	14.3	240	91.6	47.9
Huron	21,512	57.3	7.9	174	43.6	12.0
Ingham	139,834	77.9	25.9	13,019	67.2	21.8
Ionia	27,177	67.2	8.0	682	42.3	4.5
Iosco	16,052	67.9	11.2	488	78.8	10.8

TABLE IV-1. EDUCATIONAL ATTAINMENT OF THE POPULATION 25 YEARS OLD AND OVER IN MICHIGAN, BY COUNTY: CENSUS 1980 (cont.)

County	Population 25 & over	Percentage		Non-white population 25 & over	Percentage	
		High school graduates	College graduates		High school graduates non-white	College graduates non-white
Iron	9,302	63.4	10.0	32	65.6	21.8
Isabella	23,425	70.8	20.6	636	48.4	19.4
Jackson	88,518	69.1	12.2	7,684	51.0	6.6
Kalamazoo	116,578	75.7	23.0	8,159	58.8	15.0
Kalkaska	6,215	62.6	7.8	46	47.8	.0
Kent	248,187	70.8	16.2	17,754	53.9	9.4
Keweenaw	1,410	49.7	7.0	8	100.0	.0
Lake	5,063	49.0	6.8	904	30.7	4.8
Lapeer	37,063	67.4	8.5	501	35.3	7.3
Leelanau	8,657	76.8	19.3	163	49.6	7.9
Lenawee	50,849	67.8	11.8	1,300	45.4	6.2
Livingston	55,328	77.2	16.3	531	76.6	21.4
Luce	4,053	58.4	11.1	128	54.6	15.6
Mackinac	6,134	63.0	9.2	405	54.0	.4
Macomb	396,580	69.1	10.7	9,066	65.8	21.4
Manistee	14,116	62.2	9.6	158	50.6	10.7
Marquette	38,878	75.6	17.5	1,092	61.5	13.8
Mason	16,078	66.0	9.9	271	64.2	16.9
Mescota	16,537	69.5	14.9	319	65.8	7.5
Menominee	15,378	67.0	8.1	132	59.0	11.3
Midland	40,532	76.8	22.7	861	85.3	46.8
Missaukee	5,690	59.5	7.0	51	37.2	11.7
Monroe	73,432	63.3	8.8	1,666	51.7	8.2
Montcalm	27,100	63.8	8.7	341	44.2	6.7
Montmorency	4,710	60.1	6.4	22	81.8	9.0
Muskegon	89,173	65.2	10.6	9,822	48.6	4.6
Newaygo	20,336	60.5	8.8	548	40.5	3.6
Oakland	600,699	77.8	24.0	34,220	68.6	24.6
Oceana	12,542	63.6	9.2	307	34.2	4.8
Ogemaw	9,987	57.4	6.7	63	66.6	14.2
Ontonagon	6,120	64.6	8.9	39	56.4	.0
Osceola	10,922	61.7	8.3	54	42.5	7.4
Oscoda	4,303	59.3	7.7	5	60.0	.0
Otsego	8,481	70.8	14.0	45	80.0	24.4
Ottawa	84,991	69.1	14.6	1,507	44.2	11.7

TABLE IV-1. EDUCATIONAL ATTAINMENT OF THE POPULATION 25 YEARS OLD AND OVER IN MICHIGAN, BY COUNTY: CENSUS 1980 (cont.)

County	Population 25 & over	Percentage		Non-white population 25 & over	Percentage	
		High school graduates	College graduates		High school graduates non-white	College graduates non-white
Presque Isle	8,590	56.9	7.5	62	69.3	35.4
Roscommon	10,893	62.8	8.0	34	58.8	.0
Saginaw	124,520	65.7	11.2	19,651	49.5	6.8
St. Clair	78,018	65.0	9.2	2,058	43.2	4.4
St. Joseph	32,411	65.7	9.2	921	45.8	4.6
Sanilac	23,578	60.8	7.5	261	36.3	6.5
Schoolcraft	5,195	58.7	9.1	214	49.5	9.3
Shiawassee	38,777	67.6	9.2	408	52.9	9.3
Tuscola	31,316	62.6	7.8	510	39.8	5.2
Van Buren	38,453	62.0	10.1	3,334	38.7	3.9
Washtenaw	141,291	80.9	36.0	17,389	72.2	30.4
Wayne	1,350,573	61.4	11.1	447,345	54.9	7.5
Wexford	14,678	62.5	10.3	59	49.1	.0
TOTAL	5,254,040	67.9	14.2	677,014	56.0	9.6

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF3, computer tape.

TABLE IV-2. STUDENT ENROLLMENT, TEACHERS, STUDENT-TEACHER RATIO, AVERAGE TEACHER SALARY, AND NUMBER OF SCHOOL DISTRICTS IN MICHIGAN, PUBLIC SCHOOLS ONLY, SCHOOL YEARS: 1963-1964 THROUGH 1983-84

School year	Enrollment[a]	Number of teachers	Student-teacher ratio	Average teacher's salary	Number of districts
1963-64	1,856,895	69,376	26.8	6,474	1,515
1964-65	1,917,890	72,935	26.3	6,745	1,227
1965-66	1,968,403	76,047	25.9	6,896	993
1966-67	2,033,982	80,637	25.2	7,535	866
1967-68	2,079,704	85,346	24.4	8,238	712
1968-69	2,122,915	87,487	24.3	9,134	648
1969-70	2,164,386	89,049	24.3	10,045	638
1970-71	2,178,745	90,672	24.0	11,034	624
1971-72	2,212,505	91,190	24.8	11,671	608
1972-73	2,193,270	93,852	23.4	12,070	602
1973-74	2,159,966	94,221	22.9	12,852	597
1974-75	2,139,720	93,580	22.9	14,059	590
1975-76	2,127,917	92,677	23.0	15,064	587
1976-77	2,081,936	90,780	22.9	15,426	581
1977-78	2,023,944	90,312	22.4	16,445	579
1978-79	1,965,685	88,652	22.2	18,016	576
1979-80	1,910,385	87,487	21.8	19,663	575
1980-81	1,859,934	84,041	22.1	21,779	574
1981-82	1,792,331	78,447	22.9	24,304	574
1982-83	1,742,831	74,814	23.3	25,712	573
1983-84	1,712,103	74,312	23.0	27,104	570

SOURCE: Michigan Department of Education, Analysis of Michigan Public School Revenues and Expenditures, 1961 through 1982, Bulletin 1011 (Lansing: annually): and Michigan Deaprtment of Education, special release (for number of teachers and ratio, 1961 through 1966).

[a] Membership is defined as the number of students enrolled on the fourth Friday after the opening of the school year.

TABLE III-21. BOOK CENSUS OF PATIENTS IN CENTERS FOR DEVELOPMENTAL DISABILITIES, FISCAL YEARS ENDED SEPTEMBER 30, 1983 AND 1984

		Book census, September 30					
		Residents[a]		Nonresidents[b]		Total	
Name of institution	Location	1983	1984	1983	1984	1983	1984
Caro Regional Mental Health Center	Caro	442	412	96	101	538	513
Coldwater Regional Center for Developmental Disabilities	Coldwater	533	499	130	46	663	545
Macomb-Oakland Regional Center	Mt. Clemens	215	285	1,036	916	1,251	1,201
Mt. Pleasant Regional Center for Developmental Disabilities	Mt. Pleasant	563	733	323	574	886	1,307
Muskegon Regional Center for Developmental Disabilities	Muskegon	482	458	85	117	567	575
Newberry Regional Mental Health Center	Newberry	205	185	27	23	232	208
Oakdale Regional Center for Developmental Disabilities	Lapeer	586	588	263	256	849	844
Plymouth Center for Human Development[c]	Northville	88	--	463	--	551	--
Southgate Regional Center for Developmental Disabilities	Southgate	204	175	587	271	791	446
Wayne Community Living Services	Northville	--	129	--	705	--	834
MICHIGAN		3,318	3,464	3,010	3,009	6,328	6,473

SOURCE: Michigan Department of Mental Health, special release.

NOTE: Facilities for mentally retarded.

a. In house and on authorized or unauthorized leave.

b. Community living facilities, foster family care, and convalescent status.

c. Facility closed end of year 1983.

TABLE IV-3. NUMBER OF TEACHING POSITIONS, AVERAGE TEACHER'S SALARY, AND PUPIL MEMBERSHIP OF PUBLIC SCHOOLS IN MICHIGAN, BY SIZE OF SCHOOL DISTRICT: 1970-1971 AND 1983-1984

Size of district	Number of districts		Teaching positions		Average teacher's salary		Audited Pupil membership, Septmeber	
	1970-1971	1983-1984	1970-1971	1983-1984	1970-1971	1983-1984	1970-1971	1983-1984
50,000 and over	1	1	11,136	8,397	$11,475	$26,865	89,382	210,331
20,000 - 49,999	12	4	11,528	4,805	11,930	28,515	339,662	119,859
10,000 - 19,999	20	15	12,340	9,795	11,825	30,664	285,483	220,820
5,000 - 9,999	64	47	18,509	14,349	11,368	29,380	442,596	331,324
4,500 - 4,999	14	13	2,672	2,608	10,767	27,968	66,211	62,085
4,000 - 4,499	17	18	2,914	3,354	10,667	27,632	71,837	76,407
3,500 - 3,999	28	14	4,270	2,167	10,674	26,747	102,865	51,865
3,000 - 3,499	18	29	2,415	4,067	10,211	26,699	58,426	94,762
2,500 - 2,999	31	40	559	4,875	10,076	27,034	86,030	109,123
2,000 - 2,499	63	52	5,783	5,110	10,052	25,373	40,414	116,409
1,500 - 1,999	65	75	4,780	5,794	9,690	23,843	16,072	131,014
1,000 - 1,499	83	87	4,361	4,796	9,721	22,797	4,432	105,582
500 - 999	79	90	2,570	3,296	9,070	21,618	57,480	66,269
Below 500	129	85	835	899	8,387	19,248	17,855	16,253
TOTAL	624	570	90,672	74,312	11,034	27,104	2,178,745	1,712,103

SOURCE: Michgan Department of Education, Analysis of Michigan Public School Revenues and Expenditures, 1970-1971 and 1983-1984, Bulletin 1011 (Lansing: annually).

TABLE IV-4. NUMBER AND PERCENT ENROLLMENT IN NON-PUBLIC SCHOOLS IN MICHIGAN, BY COUNTY: CENSUS 1980

	Kindergarten - Grade 8			Grades 9 - 12		
County	Total population enrolled in school	Total enrolled in private school	Percent enrolled in private school	Total population enrolled in school	Total enrolled in private school	Total enrolled in private school
Alcona	1,282	2	.1	701	3	.4
Alger	1,419	18	1.2	705	15	2.1
Allegan	13,292	1,520	11.4	6,263	494	7.8
Alpena	4,756	418	8.7	2,899	8	.2
Antrim	2,348	36	1.5	1,176	2	.1
Arenac	2,279	6	.2	1,204	5	.4
Baraga	1,306	74	5.6	650	3	.4
Barry	7,252	216	2.9	3,745	46	1.2
Bay	18,258	4,854	26.5	9,689	1,085	11.1
Benzie	1,823	27	1.6	827	27	3.2
Berrien	26,747	3,783	14.1	12,516	1,095	8.7
Branch	5,994	462	7.7	2,794	25	.8
Calhoun	20,833	981	4.7	10,018	537	5.3
Cass	7,772	261	3.3	3,633	112	3.0
Charlevoix	2,937	74	2.5	1,543	3	.1
Cheboygan	3,161	193	6.1	1,607	99	6.1
Chippewa	3,953	60	1.5	2,065	5	.2
Clare	3,461	86	2.4	1,853	23	1.2
Clinton	9,938	1,135	11.4	4,920	222	4.5
Crawford	1,401	29	2.0	700	37	5.2
Delta	6,012	441	7.3	3,284	15	.4
Dickinson	3,202	250	7.8	1,723	18	1.0
Eaton	14,428	852	5.9	6,992	136	1.9
Emmet	3,371	421	12.4	1,764	15	.8
Genesee	73,639	5,344	7.2	37,249	1,843	4.9

TABLE IV-6. SCHOOL ENROLLMENT IN MICHIGAN, BY TYPE OF SCHOOL: CENSUS 1980

Enrollment and type of schools	White	Black	Total
Nursery school	84,466	16,558	104,105
Public	40,918	10,255	52,728
Church-related	15,128	2,847	18,555
Other private	28,420	3,456	32,822
Kindergarten	112,592	23,318	140,080
Public	100,943	21,083	125,660
Church-related	9,694	1,334	11,439
Other private	1,955	901	2,981
Elementary (1 to 8 years)	1,018,736	210,209	1,259,975
Public	896,529	195,478	1,119,575
Church-related	115,955	12,542	131,564
Other private	6,252	2,189	8,836
High school (1 to 4 years)	575,386	100,515	688,726
Public	523,950	94,945	630,644
Church-related	45,642	4,302	50,838
Other private	5,794	1,268	7,224
College	450,476	68,250	531,671
Public	397,411	60,952	469,423
TOTAL (persons 3 years old and over)	2,241,656	418,850	2,724,557

SOURCE: Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Michigan (Washington, D.C.: 1983), Volume 1, Chapter C, Section 1, PC80-1-C24, Tables 66 and 76.

TABLE IV-7. PUBLIC SCHOOL STAFF IN MICHIGAN, 1979-1980, THROUGH 1982-1983

(Full-time equivalent)

Staff category	1979-1980	1980-1981	1981-1982	1982-1983
Instructional staff				
Professional				
Classroom teachers	89,840	86,619	81,746	78,232
Other teachers	632	490	429	373
Attendance personnel	257	251	225	212
Social workers	804	813	681	654
Guidance staff	3,040	2,894	2,718	2,569
Health personnel	447	482	414	390
Psychological ~~staff~~	532	543	514	511
Speech and audiology	912	970	900	875
Other pupil services	584	703	603	359
Consultants	1,255	1,007	971	1,192
Supervision and direction	881	926	817	756
Librarians	1,804	1,740	1,563	1,532
Other staff services and audio-visual	230	378	278	286
Nonprofessional				
Teacher aides	11,839	11,165	9,200	7,780
Other	1,040	1,061	833	877
Library aides	1,489	1,420	1,190	1,220
Secretary-clerical aides	2,571	2,375	2,090	2,029
Other aides	1,131	1,090	774	797
Other instructional support	297	286	202	166
TOTAL	119,585	115,213	106,148	100,810
Noninstructional staff				
Professional				
Executive administration	1,492	1,476	1,365	1,347
Fiscal service staff	560	603	589	596
Data processing staff	122	109	110	107
Principals	3,270	3,191	3,109	3,254
Assistant principals	1,445	1,432	1,381	1,316
Other professionals	993	1,028	1,012	928
Nonprofessional				
School food service staff	12,447	12,694	11,458	10,191
Transportation staff	12,316	12,040	11,511	11,240
Operation and maintenance staff	17,688	17,400	16,015	15,643
Data processing staff	302	310	285	276
Secretary and clerical	9,841	9,945	9,395	9,093
Other	2,019	1,875	1,264	1,169
TOTAL	62,495	62,103	57,494	55,160
GRAND TOTAL	182,080	177,316	163,642	155,970

SOURCE: Michigan Department of Education, special release.

TABLE IV-9. PUPILS AND SCHOOLS PARTICIPATING IN SCHOOL LUNCH PROGRAM IN MICHIGAN: FISCAL YEARS 1965-1983

Year	Number of schools participating[a,b]	Pupils participating[b]		
		Number (1,000)	Federal cost mill $	Percentage of total enrollment[c]
1965	2,228	513	n.a.	22.7
1966	2,330	556	n.a.	23.7
1967	2,458	586	n.a.	24.6
1968	2,440	560	n.a.	23.3
1969	2,506	588	5.0	23.9
1970	2,545	654	6.5	37.7
1971	2,757	692	12.9	28.4
1972	2,943	675	16.3	27.4
1973	2,840	708	24.8	28.7
1974	2,976	756	26.2	46.3
1975-76	3,028	712	33.5	46.6
1976-77	2,768	775	38.1	46.2
1977-78	3,256	830	46.7	48.7
1978-79	n.a.	847	47.8	49.8
1979-80	n.a.	866	69.0	50.2
1980-81	n.a.	861	69.9	n.a.
1981-82	n.a.	743	63.0	n.a.
1982-83	n.a.	731	74.0	n.a.

SOURCE: Bureau of the Census, Statistical Abstract of the United States, 1966 through 1984 (Washington, D.C.: annually).

a. Public and private elementary and secondary schools; private schools, estimated.
b. Data are for December of the fiscal years 1965-1968.
c. Based upon total enrollment in public schools in the fall of the fiscal year and total enrollment in private schools in the previous school year.
n.a.: not available

TABLE IV-4. NUMBER AND PERCENT ENROLLMENT IN NON-PUBLIC SCHOOLS IN MICHIGAN, BY COUNTY: CENSUS 1980 (cont.)

County	Kindergarten - Grade 8			Grades 9 - 12		
	Total population enrolled in school	Total enrolled in private school	Percent enrolled in private school	Total population enrolled in school	Total enrolled in private school	Total enrolled in private school
Gladwin	3,010	183	6.0	1,496	22	1.4
Gogebic	2,337	261	11.1	1,319	80	6.0
Grand Traverse	7,806	716	9.1	4,107	657	15.9
Gratiot	6,231	82	1.3	3,160	13	.4
Hillsdale	6,500	347	5.3	3,073	66	2.1
Houghton	4,133	32	.7	2,155	0	.0
Huron	5,477	919	16.7	2,736	46	1.6
Ingham	36,112	2,362	6.5	17,100	655	3.8
Ionia	8,191	1,022	12.4	4,359	289	6.6
Iosco	3,844	73	1.8	2,063	24	1.1
Iron	1,480	3	.2	876	0	.0
Isabella	6,615	602	9.1	3,287	205	6.2
Jackson	22,322	2,311	10.3	11,311	1,114	9.8
Kalamazoo	28,901	2,834	9.8	13,551	1,035	7.6
Kalkaska	1,835	11	.5	750	8	1.0
Kent	63,379	10,977	17.3	33,464	5,185	15.4
Keweenaw	189	2	1.0	105	0	.0
Lake	1,052	21	1.9	565	14	2.4
Lapeer	12,888	569	4.4	6,192	172	2.7
Leelanau	2,029	236	11.6	1,096	153	13.9
Lenawee	14,452	797	5.5	6,422	222	3.4
Livingston	18,327	735	4.0	8,827	173	1.9
Luce	952	21	2.2	438	2	.4
Mackinac	1,413	4	.2	896	0	.0
Macomb	106,367	10,980	10.3	57,078	3,695	6.4

TABLE IV-4. NUMBER AND PERCENT ENROLLMENT IN NON-PUBLIC SCHOOLS IN MICHIGAN, BY COUNTY: CENSUS 1980 (cont.)

	Kindergarten - Grade 8			Grades 9 - 12		
County	Total population enrolled in school	Total enrolled in private school	Percent enrolled in private school	Total population enrolled in school	Total enrolled in private school	Total enrolled in private school
Manistee	3,224	273	8.4	1,866	250	13.3
Marquette	9,700	258	2.6	4,146	6	.1
Mason	3,681	248	6.7	1,860	20	1.0
Mecosta	4,264	374	8.7	2,044	28	1.3
Menominee	3,737	452	12.0	1,946	46	2.3
Midland	12,212	695	5.6	5,907	62	1.0
Missaukee	1,554	168	10.8	752	71	9.4
Monroe	23,089	3,017	13.0	10,898	787	7.2
Montcalm	7,635	318	4.1	3,682	115	3.1
Montmorency	1,019	9	.8	508	4	.7
Muskegon	24,317	2,357	9.6	12,758	1,244	9.7
Newaygo	5,565	353	6.3	2,789	81	2.9
Oakland	148,462	15,830	10.6	75,940	8,012	10.5
Oceana	3,577	108	3.0	1,810	25	1.3
Ogemaw	2,387	121	5.0	1,131	6	.5
Ontonagon	1,478	4	.2	915	0	.0
Osceola	3,073	160	5.2	1,454	51	3.5
Oscoda	903	46	5.0	468	21	4.4
Otsego	2,447	391	15.9	1,287	182	14.1
Ottawa	25,020	5,294	21.1	12,382	2,075	16.7
Presque Isle	2,073	474	22.8	1,138	9	.7
Roscommon	1,920	74	3.8	1,046	18	1.7
Saginaw	38,084	4,830	12.6	18,522	1,650	8.9
St. Clair	22,490	1,392	6.1	11,482	304	2.6
St. Joseph	8,468	542	6.4	3,951	53	1.3

TABLE IV-4. NUMBER AND PERCENT ENROLLMENT IN NON-PUBLIC SCHOOLS IN MICHIGAN, BY COUNTY: CENSUS 1980 (cont.)

County	Kindergarten - Grade 8 Total population enrolled in school	Kindergarten - Grade 8 Total enrolled in private school	Kindergarten - Grade 8 Percent enrolled in private school	Grades 9 - 12 Total population enrolled in school	Grades 9 - 12 Total enrolled in private school	Grades 9 - 12 Total enrolled in private school
Sanilac	6,388	137	2.1	3,345	24	.7
Schoolcraft	1,266	211	16.6	632	11	1.7
Shiawassee	12,310	923	7.4	5,811	140	2.4
Tuscola	9,876	916	9.2	4,655	97	2.0
Van Buren	11,053	761	6.8	4,844	103	2.1
Washtenaw	32,146	2,359	7.3	15,030	787	5.2
Wayne	356,348	53,836	15.1	164,593	22,033	13.3
Wexford	3,783	246	6.5	1,918	44	2.2
TOTAL	1,400,055	154,820	11.0	688,726	58,062	8.4

SOURCE: Bureau of the Census, 1980 Population and Housing, STF3, computer tape.

TABLE IV-5. ENROLLMENT BY GRADES IN MICHIGAN PUBLIC SCHOOLS, ON THE FOURTH FRIDAY FOLLOWING LABOR DAY: 1975-1984

Grade	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84
K	159,981	152,787	136,843	129,592	125,332	122,455	116,753	120,826	121,425
1	149,484	154,492	149,567	135,997	128,961	123,662	119,175	113,917	117,409
2	141,795	143,778	148,878	144,113	130,838	123,337	116,583	112,666	108,431
3	141,906	137,875	139,365	144,565	140,107	126,503	118,002	112,133	109,146
4	143,911	139,795	135,434	136,680	141,608	136,255	122,605	114,818	109,588
5	149,672	142,170	137,803	133,776	134,610	139,185	132,651	119,662	112,740
6	158,018	148,637	141,603	137,098	133,242	133,698	136,780	131,480	119,718
7	163,788	159,610	149,898	142,851	138,511	133,885	132,859	136,656	131,619
8	165,012	162,193	157,603	148,293	140,782	135,966	130,218	129,706	133,733
9	177,307	174,405	171,649	166,411	156,999	149,403	142,775	135,946	141,554
10	173,314	172,489	166,038	161,592	156,850	146,734	137,584	133,892	128,375
11	158,655	157,875	155,259	149,912	145,963	142,779	134,019	129,226	122,050
12	143,365	143,093	139,565	138,931	132,476	130,699	128,326	121,036	113,653
Other[a]	101,709	92,737	95,661	96,346	104,158	115,504	124,992	135,588	147,327
TOTAL	2,127,917	2,081,936	2,025,166	1,966,157	1,910,437	1,860,065	1,793,322	1,745,552	1,716,768

SOURCE: Michigan Department of Education, Michigan Educational Statistics, (Lansing: annually), Table 3, and special release for (1980-81, 1981-82, 1982-83, and 1983-84 data).

[a] Includes students of elementary and secondary ungraded classes, ungraded special needs and postgraduate. Does not include prekindergarteners.

TABLE IV-8. GENERAL FUND REVENUE SOURCES AND CURRENT OPERATING EXPENDITURES FOR PUBLIC SCHOOLS IN MICHIGAN: 1972-1973 THROUGH 1983-1984

School year	Revenues Local ($1,000)	State ($1,000)	Federal ($1,000)	Other[a] ($1,000)	Total[b] ($1,000)	Per pupil revenue	Total current operating expenditures ($1,000)	Per pupil current operating expenditures
1972-73	1,212,837	859,463	112,945	5,096	2,190,341	998.66	2,085,335	950.79
1973-74	1,378,727	945,116	116,182	4,977	2,445,002	1,131.96	2,271,936	1,051.86
1974-75	1,544,679	991,396	145,713	5,714	2,687,502	1,256.00	2,548,409	1,191.01
1975-76	1,715,734	1,028,155	161,897	4,644	2,910,430	1,367.74	2,772,531	1,302.94
1976-77	1,614,153	1,193,332	149,280	6,715	2,963,479	1,423.42	2,934,395	1,409.46
1977-78	1,804,754	1,290,231	192,513	5,547	3,293,046	1,627.04	3,215,655	1,588.81
1978-79	1,993,161	1,349,221	215,510	6,433	3,564,326	1,813.27	3,500,835	1,780.97
1979-80	2,273,569	1,377,578	226,782	3,837	3,881,765	2,031.93	3,826,569	2,003.04
1980-81	2,633,766	1,207,740	254,153	4,468	4,100,128	2,204.45	4,121,362	2,215.86
1981-82	2,996,860	1,173,373	210,491	4,291	4,385,014	2,446.54	4,392,107	2,450.50
1982-83	3,149,922	1,095,332	187,879	4,575	4,437,709	2,546.26	4,479,188	2,570.06
1938-84	3,228,169	1,285,303	196,075	4,261	4,713,808	2,753.23	4,736,801	2,766.66

SOURCE: Michigan Department of Education, *Analysis of Michigan Public School Revenues and Expenditures*, 1970 through 1982, *Bulletin 1011* (Lansing: annually).

NOTE: General fund is the fund used to record the operations of the school district pertaining to education, except those specifically described under Building and Site and Debt Retirement funds. Current operating expenditures are the basic expenses of a school district including expenditures for instruction, administration, attendance, health, transportation, fixed charges, operation of plant, and maintenance of plant. The current operating expenditures exclude capital outlay, community services, student services, and outgoing transfers.

a. Intermediate sources, gifts, and bequests.
b. Excludes incoming transfers.

TABLE IV-10. EARNED DEGREES CONFERRED BY HIGHER EDUCATIONAL INSTITUTIONS IN MICHIGAN AND THE UNITED STATES, BY SEX AND LEVEL OF DEGREE: 1971-1982

Year	Bachelor's and first professional		Master's and second professional		Doctor's degrees (Ph.D., Ed.D. etc.)	
	Men	Women	Men	Women	Men	Women
			Michigan Publicly controlled			
1971-72	18,262	14,181	7,446	5,194	1,433	261
1972-73	19,238	15,089	7,276	5,218	1,429	306
1973-74	18,764	14,332	7,262	5,592	1,243	328
1974-75	17,721	14,015	7,850	5,920	1,295	311
1975-76	17,762	13,838	8,209	6,636	1,105	373
1976-77	15,888	13,335	8,194	6,818	1,096	361
1977-78	17,051	14,043	7,775	6,792	941	355
1978-79	16,654	14,547	7,356	6,515	965	408
1979-80	16,988	15,033	7,223	6,740	924	372
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	16,978	16,012	6,803	6,485	963	427
			Privately controlled			
1971-72	4,481	2,578	601	408	16	0
1972-73	4,402	2,466	620	389	21	2
1973-74	4,727	2,589	591	372	10	1
1974-75	4,540	2,622	660	457	26	3
1975-76	4,982	2,799	666	494	15	5
1976-77	3,934	2,784	591	495	35	12
1977-78	4,748	3,038	565	426	37	5
1978-79	4,973	3,403	633	392	32	12
1979-80	4,842	3,431	666	427	31	7
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	4,812	3,819	713	367	41	5
			Total			
1971-72	22,743	16,759	8,047	5,602	1,449	261
1972-73	23,640	17,545	7,896	5,607	1,450	308
1973-74	23,491	16,921	7,853	5,964	1,253	329
1974-75	22,251	16,637	8,510	6,377	1,321	314
1975-76	22,743	16,637	8,037	6,042	1,538	480
1976-77	19,822	16,119	8,785	7,313	1,131	373
1977-78	21,799	17,081	8,340	7,218	978	360
1978-79	21,627	17,950	7,989	6,907	997	420
1979-80	21,830	18,464	7,889	7,167	955	379
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	21,790	19,831	7,516	6,852	922	422

TABLE IV-10. EARNED DEGREES CONFERRED BY HIGHER EDUCATIONAL INSTITUTIONS IN MICHIGAN AND THE UNITED STATES, BY SEX AND LEVEL OF DEGREE: 1971-1982 (cont.)

	Bachelor's and first professional		Master's and second professional		Doctor's degrees (Ph.D., Ed.D. etc.)	
Year	Men	Women	Men	Women	Men	Women
			United States Publicly controlled			
1971-72	352,824	270,374	96,468	71,481	18,577	3,205
1972-73	372,890	285,592	99,229	75,991	18,587	3,783
1973-74	383,117	297,812	101,722	83,782	17,897	3,920
1974-75	367,615	296,816	103,509	91,157	17,567	4,612
1975-76	367,854	299,037	105,968	101,241	16,902	4,861
1976-77	336,291	296,242	104,471	104,276	16,119	5,107
1977-78	354,137	306,454	99,206	103,685	15,085	5,386
1978-79	337,628	307,699	91,704	99,411	14,968	5,834
1979-80	337,329	314,697	88,551	98,948	14,555	6,053
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	336,956	329,130	84,030	98,265	14,186	6,703
			Privately controlled			
1971-72	191,828	122,858	53,617	31,208	9,518	2,069
1972-73	195,471	126,754	55,771	33,534	9,988	2,432
1973-74	196,694	131,031	56,622	36,133	9,477	2,532
1974-75	190,039	133,452	58,606	40,379	9,252	2,655
1975-76	193,905	136,700	61,777	44,015	9,371	2,942
1976-77	158,940	132,337	62,418	45,572	8,910	2,987
1977-78	189,482	147,092	62,502	47,423	8,584	3,101
1978-79	187,684	151,947	60,570	48,202	8,509	3,353
1979-80	188,998	158,524	62,198	48,384	8,388	3,619
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	188,631	170,313	61,502	51,749	8,038	3,780
			Total			
1971-72	544,652	393,232	150,085	102,689	28,095	5,274
1972-73	568,361	412,346	155,000	109,525	28,575	6,215
1973-74	579,811	428,843	158,344	119,915	27,374	6,452
1974-75	557,654	430,268	162,115	131,536	26,819	7,267
1975-76	561,759	435,745	167,745	145,256	26,273	7,803
1976-77	551,789	441,219	168,210	150,031	25,150	8,094
1977-78	543,619	453,546	161,708	151,108	23,669	8,487
1978-79	529,362	465,546	152,274	147,613	23,477	9,187
1979-80	526,327	473,221	150,749	147,332	22,943	9,672
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	525,587	499,443	145,532	150,014	22,224	10,483

SOURCE: National Center of Education Statistics, Earned Degrees Conferred, 1975-76, Summary Data (Washington, D.C.: annually), and special release.

TABLE IV-11. OPENING FALL ENROLLMENTS BY TYPE OF MICHIGAN HIGHER EDUCATION INSTITUTIONS (HEADCOUNT): 1960-1984

Year	Public 4-year institutions	Public 2-year institutions	Private institutions	Total
		Headcount		
1960	107,658	27,220	36,398	171,285
1961	112,082	31,619	38,278	181,979
1962	119,834	34,356	39,700	193,890
1963	129,113	38,001	40,611	207,725
1964	143,114	46,123	43,472	232,709
1965	162,312	58,216	47,896	268,424
1966	176,487	69,496	49,462	295,445
1967	187,708	79,698	50,461	317,867
1968	198,419	95,965	50,777	345,161
1969	208,323	115,299	50,759	374,381
1970	217,802	125,553	52,348	395,703
1971	220,165	132,059	51,335	403,559
1972	218,667	137,634	50,658	406,959
1973	221,893	152,715	51,160	425,768
1974	229,627	173,643	55,273	458,543
1975	241,769	197,199	61,081	500,049
1976	236,831	187,622	60,372	484,825
1977	236,618	186,876	60,497	483,991
1978	236,035	187,649	62,810	486,494
1979	240,600	209,554	65,333	514,488
1980	242,907	207,816	66,216	516,939
1981	235,027	211,871	67,509	514,407
1982	226,385	213,204	69,807	509,396
1983	226,999	217,230	73,809	518,038
1984	226,011	205,337	72,798	504,146

SOURCE: Michigan Department of Education, Michigan Educational Statistics, 1977-78 (Lansing: 1978), Table 21 (1976); and special release.

TABLE IV-12. OPENING FALL ENROLLMENT (HEADCOUNT) IN INSTITUTIONS OF HIGHER EDUCATION IN MICHIGN, BY INSTITUTION: 1980-1984

Institution and city	1980	1981	1982	1983	1984
Public baccalaureate institutions					
Central Michigan University, Mt. Pleasant	18,269	17,653	17,132	17,259	16,882
Eastern Michigan University, Ypsilanti	19,323	18,766	18,078	18,880	19,210
Ferris State College, Big Rapids	11,112	11,261	11,008	10,767	10,540
Grand Valley State College, Allendale	6,984	6,699	6,366	6,710	7,153
Lake Superior State College, Sault Ste. Marie	2,501	2,559	2,494	2,820	2,783
Michigan State University, East Lansing	47,316	44,887	42,730	41,765	42,193
Michigan Technological University, Houghton	7,865	7,779	7,640	7,414	6,935
Northern Michigan University, Marquette	9,379	9,073	8,377	8,054	7,824
Oakland University, Rochester	12,006	11,644	11,721	12,084	11,971
Saginaw Valley College, University Center	4,285	4,324	4,370	4,612	4,833
University of Michigan, Ann Arbor	37,171	35,677	35,629	34,593	34,467
University of Michigan, Dearborn	6,291	6,575	6,390	6,399	6,321
University of Michigan, Flint	4,410	4,609	5,025	5,707	5,596
Wayne State University, Detroit	33,408	31,522	29,775	29,639	29,070
Western Michigan University, Kalamazoo	22,641	21,999	20,580	20,296	20,233
TOTAL	242,907	235,027	227,315	226,999	226,011
Public community and junior colleges					
Alpena Community College, Alpena	2,097	1,946	1,842	2,006	1,878
Bay de Noc Community College, Escanaba	1,531	1,621	1,626	1,616	1,801
C.S. Mott Community College, Flint	10,698	10,787	10,865	11,432	11,158
Delta College, University Center	9,996	10,013	10,279	10,607	10,243
Glen Oaks Community College, Centerville	1,224	1,173	1,244	1,280	1,213
Gogebic Community College, Ironwood	1,130	1,591	1,600	1,600	1,600

TABLE IV-12. OPENING FALL ENROLLMENT (HEADCOUNT) IN INSTITUTIONS OF HIGHER EDUCATION IN MICHIGAN, BY INSTITUTION: 1980-1984 (cont.)

Institution and city	1980	1981	1982	1983	1984
Public community and junior colleges (cont.)					
Grand Rapids Junior College, Grand Rapids	8,871	8,905	9,207	9,254	8,913
Henry Ford Community College, Dearborn	16,231	16,075	16,403	16,555	14,338
Highland Park Community College, Highland Park	2,654	2,706	2,625	2,623	2,416
Jackson Community College, Jackson	7,085	8,751	5,259	6,146	6,071
Kalamazoo Valley Community College, Kalamazoo	7,069	7,477	7,895	8,141	8,281
Kellogg Community College, Battle Creek	5,855	5,369	5,193	4,660	4,553
Kirtland Community College, Roscommon	1,075	1,418	1,335	1,406	1,333
Lake Michigan College, Benton Harbor	3,602	3,013	2,977	3,025	3,199
Lansing Community College, Lansing	18,884	19,143	19,779	20,808	19,157
Macomb County Community College, Warren	28,429	28,090	28,174	31,152	30,890
Mid-Michigan Community College, Gladwin	2,007	1,582	1,573	1,693	1,762
Monroe County Community College, Monroe	2,151	2,470	2,702	2,937	2,880
Montcalm Community College, Sidney	1,544	1,223	1,237	1,361	1,398
Muskegon Community College, Muskegon	5,171	5,100	5,009	4,908	4,623
North Central Michigan College, Petoskey	1,881	1,965	1,681	1,832	1,629
Northwestern Michigan College, Traverse City	3,389	3,432	3,448	3,354	3,222
Oakland Community College, Bloomfield Hills	23,554	24,000	25,359	26,939	26,605
St. Clair County Community College, Port Huron	3,634	3,655	3,879	3,871	3,885
Schoolcraft College, Livonia	8,077	8,527	8,509	9,012	8,512
Southwestern Michigan College, Dowagiac	2,135	2,238	2,465	2,517	2,365
Washtenaw Community College, Ann Arbor	8,445	8,343	8,247	8,351	7,858
Wayne County Community College, Detroit	18,386	20,325	19,475	17,003	12,408
West Shore Community College, Scottville	1,011	933	1,081	1,141	1,083
TOTAL	207,816	211,871	210,968	217,230	205,337

TABLE IV-12. OPENING FALL ENROLLMENT (HEADCOUNT) IN INSTITUTIONS OF HIGHER EDUCATION IN MICHIGAN, BY INSTITUTION: 1980-1984 (cont.)

Institution and city	1980	1981	1982	1983	1984
Independent institutions					
Adrian College, Adrian	1,116	1,242	1,222	1,187	1,220
Albion College, Albion	1,860	1,876	1,742	1,656	1,569
Allan/Touro College, Southfield	--	20	--	1,640	n.a.
Alma College, Alma	1,198	1,110	1,059	1,004	1,016
Andrews University, Berrien Springs	3,018	3,083	2,851	2,638	3,034
Aquinas College, Grand Rapids	2,529	2,753	2,743	2,279	2,831
Baker Jr. College of Business, Flint	1,311	1,427	1,762	1,866	2,424
Calvin College, Grand Rapids	4,058	3,919	3,807	3,926	3,973
Calvin Theological Seminary, Grand Rapids	190	165	210	225	238
Center for Creative Studies	1,086	1,103	1,113	974	1,141
Central Bible College	--	--	--	54	73
Center for Humanistic Studies, Detroit	--	55	69	63	66
Chrysler Institute of Technology	--	--	--	184	424
Cleary College, Ypsilanti	765	416	1,006	862	970
Concordia Lutheran Junior College, Ann Arbor	526	550	540	509	487
Cranbrook Academy of Art, Bloomfield Hills	148	150	140	140	147
Davenport College of Business, Grand Rapids	3,047	4,265	4,511	4,684	4,219
D'etre University, Grosse Pointe	--	--	--	52	70
Detroit Baptist Theology Seminary	--	--	--	35	41
Detroit College of Business, Dearborn	2,368	2,789	2,965	3,425	3,318
Detroit College of Law, Detroit	848	874	877	983	809
Ecumenical Theology Seminary, Southfield	n.a.	n.a.	n.a.	n.a.	70
General Motors Institute, Flint	2,327	2,389	2,433	2,494	2,998
Grace Bible College, Grand Rapids	176	241	170	145	141
Grand Rapids Baptist, Grand Rapids	1,216	1,132	1,077	960	951
Great Lakes Bible College, Lansing	182	178	176	152	141
Hillsdale College, Hillsdale	1,035	1,043	1,044	984	1,032

TABLE IV-12. OPENING FALL ENROLLMENT (HEADCOUNT) IN INSTITUTIONS OF HIGHER EDUCATION IN MICHIGAN, BY INSTITUTION: 1980-1984 (cont.)

Institution and city	1980	1981	1982	1983	1984
Independent institutions (cont.)					
Hope College, Holland	2,464	2,458	2,530	2,379	2,550
Jordon College, Cedar Springs	683	654	1,025	1,464	1,703
Kalamazoo College, Kalamazoo	1,452	1,367	1,234	1,126	1,106
Kendall School of Design, Grand Rapids	482	505	577	646	687
Lawrence Institute of Technology, Southfield	5,260	5,703	5,868	5,332	6,121
Lewis College of Business, Detroit	487	609	515	647	377
Madonna College, Livonia	3,213	3,385	3,409	3,742	3,879
Marygrove College, Detroit	1,025	1,149	1,189	1,159	1,182
Mercy College of Detroit, Detroit	2,484	2,119	2,106	2,264	2,465
Michigan Christian Junior College, Rochester	338	319	343	362	360
Muskegon Business College, Muskegon	1,125	1,175	1,253	1,450	1,464
Nazareth College, Nazareth	531	528	571	569	820
Northwood Institute, Midland	1,945	1,929	1,846	1,862	1,836
Olivet College, Olivet	668	637	561	606	679
Reformed Bible College, Grand Rapids	209	206	222	200	219
Sacred Heart Seminary, Detroit	142	172	198	195	204
Saginaw Business Institute, Saginaw	--	--	--	--	542
St. Cyril and Methodium Seminary, Orchard Lake	--	73	92	35	53
St. John's Seminary	149	211	190	108	200
St. Mary's College, Orchard Lake	185	216	195	220	241
Siena Heights College, Adrian	1,420	1,478	1,404	1,288	1,480
Spring Arbor College, Spring Arbor	1,086	1,011	975	1,025	1,046
Suomi College, Hancock	578	510	558	592	659
Thomas Cooley Law School, Lansing	1,052	1,045	1,115	1,159	1,128
University of Detroit, Detroit	6,397	6,186	5,967	5,512	5,828

TABLE IV-12. OPENING FALL ENROLLMENT (HEADCOUNT) IN INSTITUTIONS OF HIGHER EDUCATION IN MICHIGAN, BY INSTITUTION: 1980-1984 (cont.)

Institution and city	1980	1981	1982	1983	1984
Independent institutions (cont.)					
Walsh College of Accountancy and Business Administration, Troy	1,583	1,707	1,388	1,719	2,025
Western Theological Seminary, Holland	104	130	122	135	177
William Tyndal College, Detroit	--	--	--	287	302
Yeshivath Beth Yehudah, Oak Park	--	64	231	n.a.	62
TOTAL	66,216	67,509	67,673	64,206	72,798

SOURCE: Michigan Department of Education, special release.

NOTE: Enrollment statistics are based on actual headcounts of students enrolled in degree programs, unclassified students, and graduate students.

n.a.: not available

TABLE IV-13. ESTIMATE OF MICHIGAN RESIDENT STUDENT EXPENSES AT MICHIGAN INSTITUTIONS OF HIGHER EDUCATION: EXPENSES FOR 1984-1985 ACADEMIC YEAR (SEPTEMBER THROUGH JUNE)

Institution	Tuition and fees	Room and board	Books and personal	Travel	Total
		Public Colleges and Universities			
Central Michigan Univ. Mt. Pleasant	$1,460	$2,220	$ 950	$ --	$4,630
Eastern Michigan Univ. Ypsilanti	1,444	2,490	803	313	5,050
Ferris State College Big Rapids	1,566	2,370	1,080	375	5,391
Grand Valley State College Allendale	1,502	2,630	750	400	5,282
Lake Superior State College Sault Ste. Marie	1,455	2,448	1,100	--	5,003
Michigan State University East Lansing	1,995	2,443	270	948	5,646
Michigan Technological Univ. Houghton	1,830	2,470	900	350	5,550
Northern Michigan University Marquette	1,471	2,276	1,100	--	4,848
Oakland University Rochester	1,546	2,579	750	350	5,225
Saginaw Valley State College University Center	1,708	2,430	832	421	5,391
University of Michigan Ann Arbor	2,326	3,322	1,124	150	6,922
Univ. of Michigan/Dearborn Dearborn	1,744	1,100	896	750	4,490
University of Michigan/Flint Flint	1,472	1,600	680	690	4,442
Wayne State University Detroit	1,648	1,100	852	696	4,296
Western Michigan University Kalamazoo	1,460	2,240	1,140	100	4,940
		Nonpublic colleges and universities			
Adrian College, Adrian	5,776	2,022	1,100	--	8,898
Albion College, Albion	6,320	2,862	1,000	(a)	10,182
Alma College, Alma	6,542	2,640	700	300	10,182
Andrews University Berrien Springs	5,625	2,880	900	500	9,905
Aquinas College, Grand Rapids	5,100	2,558	750	350	8,758
Baker Jr. College of Bus. Flint	2,460	1,800	775	675	5,710
Calvin College Grand Rapids	4,620	2,100	700	300	7,720
Center for Creative Studies College of Art and Design Detroit	5,236	1,800	775	675	8,486
Center for Humanistic Studies Detroit	5,305	3,000	1,200	600	10,105

TABLE IV-13. ESTIMATE OF MICHIGAN RESIDENT STUDENT EXPENSES AT MICHIGAN INSTITUTIONS OF HIGHER EDUCATION: EXPENSES FOR 1984-1985 ACADEMIC YEAR (SEPTEMBER THROUGH JUNE) (cont.)

Institution	Tuition and fees	Room and board	Books and personal	Travel	Total
Nonpublic colleges and universities (cont.)					
Chapin Jr. College of Bus. Oxford	$1,800	$1,450	$ 725	$ 600	$4,575
Cleary College, Ypsilanti	2,925	1,700	775	675	6,075
Concordia College Ann Arbor	3,598	2,648	1,110	116	7,472
Cranbrook Academy of Art Bloomfield Hills	5,600	2,600	1,150	500	9,850
Davenport College of Bus. Grand Rapids, Lansing Kalamazoo	4,464	2,250	920	360	7,994
D'etre Institute of Arts & Sciences, Grosse Pointe	3,900	1,800	775	675	7,150
Detroit College of Business Dearborn	3,328	1,800	775	675	6,578
Detroit College of Law Detroit					
Day	4,800	9,000[b]	2,450	1,700	17,950
Evening	3,600	9,000[b]	2,450	1,700	16,750
General Motors Institute Flint	4,400	2,000	n.a.[c]	n.a.[c]	6,400
Grace Bible College Grand Rapids	1,995	2,100	750	150	4,995
Grand Rapids Baptist College Grand Rapids	3,560	2,466	575	365	6,966
Hillsdale College Hillsdale	5,800	2,830	800	350	9,950
Hope College, Holland	5,790	2,580	1,100	(a)	9,370
Jordan Coll., Cedar Springs	2,400	1,650	775	375	5,200
Kalamazoo College Kalamazoo	7,320	2,721	720	105	10,866
Kendall School of Design Grand Rapids	4,035	1,930	1,030	731	7,726
Lawrence Inst. of Technology Southfield	2,370	2,200	1,030	1,000	6,600
Lewis College of Business Detroit	5,661	2,550	1,770	560	10,541
Madonna College, Livonia	2,120	2,260	775	375	5,530
Marygrove College Detroit	4,412	2,230	775	375	7,792
Mercy College of Detroit Detroit	3,680	1,370	840	785	6,675
Michigan Christian Jr. Coll. Rochester	2,740	2,216	775	375	6,106
Muskegon Business Coll. Muskegon	2,355	1,800	800	650	5,605
Nazareth College Nazareth	5,430	2,530	810	400	9,170
Northwood Institute Midland	4,545	2,550	775	375	8,245
Olivet College, Olivet	5,040	2,390	750	350	8,490

TABLE IV-13. ESTIMATE OF MICHIGAN RESIDENT STUDENT EXPENSES AT MICHIGAN INSTITUTIONS OF HIGHER EDUCATION: EXPENSES FOR 1984-1985 ACADEMIC YEAR (SEPTEMBER THROUGH JUNE) (cont.)

Institution	Tuition and fees	Room and board	Books and personal	Travel	Total
Nonpublic colleges and universities (cont.)					
Reformed Bible College Detroit	3,000	2,200	700	400	6,300
Sacred Heart Seminary Detroit	2,600	1,650	775	375	5,400
St. Mary's College Orchard Lake	2,590	2,450	775	375	6,190
Siena Heights College, Adrian	4,080	2,400	775	375	7,630
Spring Arbor College Spring Arbor	4,890	2,108	775	375	8,148
Suomi College, Hancock	6,000	2,500	700	300	9,500
Thomas Cooley Law School Lansing	4,725	3,015	1,154	976	9,870
University of Detroit Detroit	5,460	2,496	1,020	310	9,286
Walsh College/Acctng. and Business Admin. Detroit	2,336	1,700	775	675	5,486
William Tyndale College Detroit	2,528	2,320	775	375	5,998
Public Community Colleges					
Alpena Comm. College Alpena					
Resident of district	682	1,400	800	500	3,382
Non-resident of district	992	2,125	800	800	4,717
Bay De Noc Community College Escanaba					
Resident of district	791	1,800	775	675	4,041
Non-resident of district	1,070	2,322	775	375	5,007
Delta College, Univ. Center					
Resident of district	965	2,420	700	(d)	4,085
Non-resident of district	1,709	2,420	700	(d)	4,829
C.S. Mott Community College Flint					
Resident of district	788	2,300	750	675	4,513
Non-resident of district	1,088	2,300	750	1,000	5,138
Glen Oaks Community College Centreville					
Resident of district	742	1,100	917	820	3,579
Non-resident of district	982	1,100	917	820	3,819
Gogebic Comm. College Ironwood					
Resident of district	712	1,500	775	600	3,587
Non-resident of district	1,084	1,810	775	600	3,959
Grand Rapids Jr. College Grand Rapids					
Resident of district	981	1,100	900	650	3,631
Non-resident of district	1,570	1,100	900	800	4,370

TABLE IV-13. ESTIMATE OF MICHIGAN RESIDENT STUDENT EXPENSES AT MICHIGAN INSTITUTIONS OF HIGHER EDUCATION: EXPENSES FOR 1984-1985 ACADEMIC YEAR (SEPTEMBER THROUGH JUNE) (cont.)

Institution	Tuition and fees	Room and board	Books and personal	Travel	Total
Public Community Colleges (cont.)					
Henry Ford Community College Dearborn					
Resident of district	960	1,100	775	675	3,510
Non-resident of district	1,160	1,100	775	675	3,710
Highland Park Comm. College Highland Park					
Resident of district	650	1,650	1,450	n.a.	3,750
Non-resident of district	1,250	1,650	1,450	n.a.	4,350
Jackson Comm. Coll., Jackson					
Resident of district	870	1,100	1,250	900	4,120
Non-resident of district	1,350	1,100	1,250	900	4,600
Kalamazoo Valley Comm. College Kalamazoo					
Resident of district	504	2,000	940	700	4,144
Non-resident of district	1,008	2,000	940	700	4,648
Kellogg Community College Battle Creek					
Resident of district	760	1,800	775	675	4,010
Non-resident of district	1,240	1,800	775	675	4,490
Kirtland Community College Roscommon					
Resident of district	629	1,100	796	600	3,125
Non-resident of district	808	1,100	796	733	3,427
Lake Michigan College Benton Harbor					
Resident of district	710	1,100	1,210	640	3,660
Non-resident of district	1,190	1,100	1,210	1,280	4,780
Lansing Comm. Coll. Lansing					
Resident of district	735	1,100	1,000	700	3,535
Non-resident of district	1,050	2,600	1,000	700	5,350
Macomb County Comm. College Warren					
Resident of district	1,032	1,400	725	641	3,798
Non-resident of district	1,605	1,400	725	926	4,656
Mid-Michigan Comm. College Harrison					
Resident of district	754	1,746	550	600	3,650
Non-resident of district	1,064	1,746	550	700	4,060
Monroe County Comm. College Monroe					
Resident of district	590	1,760	960	880	4,190
Non-resident of district	860	1,760	960	1,025	4,605
Montcalm Comm. Coll., Sidney					
Resident of district	774	1,800	775	800	4,149
Non-resident of district	984	1,800	775	950	4,509
Muskegon Comm. College Muskegon					
Resident of district	900	1,100	950	700	3,650
Non-resident of district	1,200	1,100	950	1,400	4,650

TABLE IV-13. ESTIMATE OF MICHIGAN RESIDENT STUDENT EXPENSES AT MICHIGAN INSTITUTIONS OF HIGHER EDUCATION: EXPENSES FOR 1984-1985 ACADEMIC YEAR (SEPTEMBER THROUGH JUNE) (cont.)

Institution	Tuition and fees	Room and board	Books and personal	Travel	Total
Public Community Colleges (cont.)					
North Central Michigan College					
Petoskey					
Resident of district	796	1,800	775	675	4,046
Non-resident of district	976	2,635	775	375	4,761
Northwestern Michigan College					
Traverse City					
Resident of district	1,035	2,342	750	650	4,777
Non-resident of district	1,659	2,342	750	650	4,401
Oakland Comm. College					
Bloomfield Hills					
Resident of district	816	1,100	1,150	970	4,036
Non-resident of district	1,178	1,100	1,150	970	4,398
St. Clair Comm. College					
Port Huron					
Resident of district	896	1,100	800	800	3,596
Non-resident of district	1,472	1,100	800	800	4,178
Schoolcraft Coll., Livonia					
Resident of district	847	1,100	975	825	3,747
Non-resident of district	1,142	1,100	975	825	4,042
Southwestern Michigan Coll.					
Dowagiac					
Resident of district	816	1,500	830	500	3,646
Non-resident of district	1,002	1,500	830	500	3,832
Washtenaw Comm. College					
Ann Arbor					
Resident of district	576	3,770	200	760	5,306
Non-resident of district	984	3,770	200	760	5,714
Wayne County Comm. College					
Detroit					
Resident of district	734	1,100	1,150	900	3,884
Non-resident of district	1,020	1,100	1,150	900	4,170
West Shore Comm. Coll.					
Scottville					
Resident of district	710	1,200	865	960	3,735
Non-resident of district	1,070	1,200	865	960	4,095
Scholarship Eligible Colleges Only					
Non-Degree Granting Non-Profit Eligible Institutions[e]					
Blodgett Memorial Medical Centers					
School of Nursing, Grand Rapids					
1st year[f]	1,344	1,500	750	650	4,244
2nd & 3rd years	1,550	1,889	861	750	5,050
Bronson Methodist Hospital					
School of Nursing (W. MI)					
Kalamazoo					
1st year	2,230	1,889	861	417	5,397
2nd year	1,390	1,889	861	417	4,557
3rd year	850	1,133	450	250	2,683

TABLE IV-13. ESTIMATE OF MICHIGAN RESIDENT STUDENT EXPENSES AT MICHIGAN INSTITUTIONS OF HIGHER EDUCATION: EXPENSES FOR 1984-1985 ACADEMIC YEAR (SEPTEMBER THROUGH JUNE) (cont.)

Institution	Tuition and fees	Room and board	Books and personal	Travel	Total
Scholarship Eligible Colleges Only					
Non-Degree Granting Non-Profit Eligible Institutions[e]					
Butterworth Hospital School of Nursing (G.R.J.C.)					
1st year	1,064	1,500	750	350	3,664
2nd and 3rd year	1,237	1,889	861	417	4,404
Detroit Receiving Hospital School of Radiologic Technology					
Detroit	325	1,700	775	675	3,475
Detroit Institute of Commerce					
Detroit	3,035	1,700	775	675	6,185
Henry Ford Hospital School of Nursing (U of M - Dearborn)					
Detroit					
1st year	2,407	1,588	947	458	5,400
2nd year	1,601	1,300	775	375	4,051
Hurley Medical Center School of Nursing					
Flint					
1st year	1,391	1,700	775	375	4,241
2nd year	1,283	1,700	775	375	4,133
Mercy Central School of Nursing (Aquinas College)					
Grand Rapids					
1st year	3,767	1,889	861	417	6,934
2nd year	2,681	1,889	861	417	5,848
Mercy School of Nursing					
Detroit					
1st year	2,375	1,889	861	417	5,542
2nd year	2,375	1,889	861	417	5,542
Saginaw Bus. Institute					
Saginaw	2,529	1,700	775	675	5,679
Shapero School of Nursing of Sinai Hospital					
Detroit	855	2,267	1,033	900	5,055
South Central Michigan School of Practical Nursing					
(Kellogg C.C.) Coldwater	3,965	2,077	947	825	7,814
St. Joseph Hospital School of Radiologic Technology					
Mt. Clemens	300	2,267	1,033	900	4,500

TABLE IV-13. ESTIMATE OF MICHIGAN RESIDENT STUDENT EXPENSES AT MICHIGAN INSTITUTIONS OF HIGHER EDUCATION: EXPENSES FOR 1984-1985 ACADEMIC YEAR (SEPTEMBER THROUGH JUNE) (cont.)

Institution	Tuition and fees	Room and board	Books and personal	Travel	Total

Room and Board is based upon length of program. Most institutions with dormitory facilities do not provide meals. Students are charged for room only and must purchase meals at the cafeteria. For these institutions the base figure of $1,700 was used to determine room and board.

Travel allowance is based upon dormitory facilities and length of program.

Reported to S.F.A.S. - Department of Education as of 15 March reporting date.

SOURCE: Michigan Department of Education, special release.

a. Included with books and personal expenses.
b. This is a non-college affiliated expense.
c. Varies because of different co-op experiences across the U.S.
d. Varies.
e. Estimated expenses for 1983-1984 academic year.
f. Tuition based upon students attending Blodgett, and Grand Rapids Junior College. For students attending Calvin College, the college must monitor for the higher tuition charges.

TABLE IV-15. EDUCATIONAL AND GENERAL EXPENDITURES OF MICHIGAN PUBLIC FOUR-YEAR INSTITUTIONS OF HIGHER EDUCATION: FISCAL YEARS 1982-1984

(In thousands of dollars)

Institution		Instruction	Research	Public service	Plant operation and maintenance	Total[a]
Central Michigan University	1982	32,246	287	1,816	4,905	79,748
	1983	35,093	325	1,980	5,250	89,447
	1984	37,283	329	2,239	5,526	95,947
Eastern Michigan University	1982	28,092	419	4,360	6,844	75,510
	1983	29,218	553	4,494	7,267	80,741
	1984	31,345	595	4,570	8,164	90,399
Ferris State College	1982	21,628	61	169	4,102	59,176
	1983	22,294	91	197	4,576	62,879
	1984	24,506	54	243	4,810	68,750
Grand Valley State College	1982	9,917	117	2,282	2,558	27,398
	1983	9,862	104	2,184	3,118	29,786
	1984	10,505	104	2,704	3,720	34,238
Lake Superior State College	1982	4,053	12	146	1,503	12,818
	1983	3,924	0	129	1,638	13,745
	1984	4,606	0	218	1,920	16,479
Michigan State University	1982	133,109	57,879	39,141	25,147	389,143
	1983	136,493	60,685	38,625	24,606	401,521
	1984	149,823	65,660	41,147	26,468	437,775
Michigan Technological Univ.	1982	16,968	6,496	744	5,966	55,737
	1983	17,930	7,308	715	4,744	59,191
	1984	19,126	8,625	769	5,823	69,096
Northern Michigan University	1982	14,755	104	2,388	4,754	45,648
	1983	14,903	79	2,468	5,588	48,042
	1984	15,870	152	2,516	5,867	52,146
Oakland University	1982	17,444	2,152	1,066	3,904	50,253
	1983	18,190	2,346	881	5,075	54,724
	1984	19,960	2,806	886	5,269	60,562
Saginaw Valley College	1982	5,513	88	155	1,272	14,795
	1983	5,572	92	189	1,214	15,614
	1984	6,334	109	290	1,532	17,656
University of Michigan[b]	1982	170,125	99,874	8,172	47,104	719,057
	1983	179,940	103,185	8,978	52,136	825,215
	1984	126,282	111,920	7,392	63,806	852,919
Wayne State University	1982	84,203	16,890	6,745	23,546	196,202
	1983	78,258	18,006	8,371	23,417	197,576
	1984	78,593	19,310	12,007	32,503	213,640
Western Michigan University	1982	39,194	963	3,992	8,852	104,654
	1983	40,614	847	3,592	9,107	111,318
	1984	42,281	1,147	3,622	9,382	118,587
TOTAL	1982	577,247	185,342	71,176	140,462	1,830,139
	1983	592,286	193,621	72,803	147,736	1,989,799
	1994	566,514	210,811	78,603	174,790	2,128,194

SOURCE: Michigan Department of Education, special release.

a. Also includes academic support, student services, institutional support, scholarships and fellowships, and auxiliary expenses.

b. Ann Arbor, Dearborn and Flint.

TABLE IV-14. EDUCATIONAL AND GENERAL REVENUES OF MICHIGAN PUBLIC FOUR-YEAR INSTITUTIONS OF HIGHER EDUCATION: FISCAL YEARS 1982-1984

(In thousands of dollars)

Institution		Tuition and fees	State appropriations	Sales and service		Other	Total
				Educational activities	Auxiliary enterprises		
Central Michigan University	1982	25,649	29,028	2,173	18,425	5,054	80,329
	1983	28,586	29,359	2,128	19,559	7,555	87,187
	1984	31,992	32,928	2,320	19,428	9,427	96,096
Eastern Michigan University	1982	18,416	34,801	813	13,414	8,496	75,940
	1983	20,787	35,795	892	14,118	11,152	82,744
	1984	23,538	38,781	1,159	14,828	12,386	90,692
Ferris State College	1982	15,009	22,189	1,912	15,454	7,400	61,964
	1983	15,974	21,067	1,495	17,052	7,337	62,925
	1984	17,504	24,400	2,086	18,118	7,799	69,906
Grand Valley State College	1982	6,227	12,683	624	3,437	4,445	27,416
	1983	6,714	13,221	791	3,035	6,203	29,964
	1984	8,263	14,407	948	3,965	7,055	34,638
Lake Superior State College	1982	2,644	5,640	13	3,471	1,503	13,271
	1983	3,054	5,705	11	3,657	2,128	14,555
	1984	37,696	6,402	7	4,266	2,403	16,847
Michigan State University	1982	70,939	142,329	15,501	73,723	99,134	401,626
	1983	77,511	150,472	17,611	77,928	97,663	421,185
	1984	83,273	166,152	19,390	83,654	101,761	454,230
Michigan Technical University	1982	11,595	20,172	766	10,464	13,692	56,689
	1983	12,883	17,558	761	10,751	14,060	56,013
	1984	13,560	25,847	1,004	10,965	14,752	66,127
Northern Michigan University	1982	9,337	21,530	2,045	8,790	4,051	45,753
	1983	10,013	20,392	2,363	8,658	7,089	48,515
	1984	10,488	23,704	1,709	8,825	7,062	51,789
Oakland University	1982	12,378	19,339	1,374	11,735	6,589	51,415
	1983	14,013	19,463	1,610	12,627	7,646	55,449
	1984	15,473	21,833	1,555	13,127	8,957	60,945

TABLE IV-14. EDUCATIONAL AND GENERAL REVENUES OF MICHIGAN PUBLIC FOUR-YEAR INSTITUTIONS OF HIGHER EDUCATION: FISCAL YEARS 1982-1984 (cont.)

(In thousands of dollars)

Institution		Tuition and fees	State appropriations	Sales and service		Other	Total
				Educational activities	Auxiliary enterprises		
Saginaw Valley College	1982	4,331	6,884	235	1,799	1,185	14,434
	1983	4,454	7,192	228	1,904	1,710	15,488
	1984	5,071	8,037	399	2,086	2,363	17,957
University of Michigan[a]	1982	117,748	159,854	22,981	51,339	389,394	741,316
	1983	133,753	160,765	23,934	57,322	420,953	796,727
	1984	148,446	181,085	25,704	62,256	472,715	890,205
Wayne State University	1982	43,263	99,362	4,480	12,214	40,991	200,310
	1983	46,458	97,708	5,333	13,148	41,219	203,866
	1984	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Western Michigan University	1982	25,716	45,295	3,438	22,633	9,419	106,501
	1983	26,921	44,963	3,769	22,563	11,228	109,444
	1984	28,500	50,765	4,031	23,930	11,861	119,087
TOTAL	1982	363,252	619,206	56,355	246,898	591,253	1,876,964
	1983	401,211	623,660	60,926	262,322	635,943	1,984,062
	1984[b]	389,878	594,339	60,311	265,448	658,543	1,968,519

SOURCE: Michigan Department of Education, special release.

a. Figures include Ann Arbor, Dearborn, and Flint operations.
b. 1984 total does not include revenues from Wayne State University.

V. THE LABOR MARKET

The civilian work force is the sum of the unemployed, those workers involved in labor disputes, and total employment (wage and salary workers, farm workers, self-employed unpaid family workers, and domestics). The unemployment rate is the number of unemployed divided by the total labor force and is usually stated as a percentage. The work force includes all persons aged 16 years and older who are classified as employed or unemployed. Those not in the labor force are without a job and are not looking for work for reasons of health, incarceration, college status, retirement, youth, voluntary idleness, involuntary idleness but not looking for a job, and so forth.

Civilian work force, employment, and unemployment figures are estimated from the Current Population Survey (CPS), a sample of U.S. households, not a complete count. The CPS, selected so as to be representative of the total population, is conducted each month by the Bureau of the Census. The results are turned over to the Bureau of Labor Statistics for analysis and release. For the ten largest states, of which Michigan is one, monthly labor force, employment, and unemployment figures come directly from the CPS. For the District of Columbia and the other 40 states, other procedures are used.

Sampling error is the error associated with using a sample of households rather than a complete census. The relative error varies inversely with the size of the statistics being estimated and with the size of the sample. Tables of sampling errors for the various statistics shown in Table V-1 through V-14 may be consulted in BLS publications dealing with geographic profiles of employment and unemployment, published annually.

Job data are estimated from samples of employers taken monthly by the Michigan Employment Security Commission and similar agencies in other states and the District of Columbia. MESC estimates are made each month by industry group for the state, the major labor market areas (these coincide with the Standard Metropolitan Statistical Areas, for the most part), for small labor markets, and for the Upper Peninsula. There is no measure of the sampling error in job data (Tables V-15 through V-18). Each year the job figures are revised on the basis of the March benchmark. The MESC carefully compares the employer sample with a tabulation of jobs reported by all employers covered under the regular state unemployment insurance system in order to make adjustments in its procedures.

The chapters dealing with retail trade, wholesale trade, and services provide greater detail on jobs for those sectors; however, their figures are developed differently and pertain to the mid-March pay period only. They are helpful guides as to which specific kinds of retailing, wholesaling, and services provide the most and fewest jobs. Also, the industry chapters in this Abstract have tabulations of licenses issued in various professions. In using those figures, the reader should bear in mind that, for one reason or another, not all license holders are practicing those professions.

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TABLE V-1. CIVILIAN LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN MICHIGAN AND THE UNITED STATES: 1950-1984

(Labor force, employment, and unemployment in thousands)

	Michigan				United States			
	Labor	Employ-	Unemployment		Labor	Employ-	Unemployment	
Year	force	ment	Number	Rate	force	ment	Number	Rate
				Original Series[a]				
1950	2,685	2,577	108	4.0	62,208	58,918	3,288	5.3
1951	2,773	2,661	112	4.0	62,017	59,961	2,055	3.3
1952	2,790	2,675	115	4.1	62,138	60,250	1,883	3.0
1953	2,941	2,862	79	2.7	63,015	61,179	1,834	2.9
1954	2,928	2,720	208	7.1	63,643	60,109	3,532	5.5
1955	2,916	2,808	108	3.7	65,023	62,170	2,852	4.4
1956	2,934	2,744	190	6.5	66,552	63,799	2,750	4.1
				Current series				
1956	3,141	2,923	218	6.9	66,552	63,799	2,750	4.1
1957	3,076	2,874	202	6.6	66,929	64,071	2,859	4.3
1958	3,045	2,627	418	13.7	67,639	63,036	4,602	6.8
1959	2,968	2,718	250	8.4	68,369	64,630	3,740	5.5
1960	2,959	2,760	199	6.7	69,628	65,778	3,852	5.5
1961	2,954	2,655	299	10.1	70,459	65,746	4,714	6.7
1962	2,939	2,734	205	7.0	70,614	66,702	3,911	5.5
1963	2,967	2,801	166	5.6	71,833	67,762	4,070	5.7
1964	3,071	2,923	148	4.8	73,091	69,305	3,786	5.2
1965	3,211	3,086	125	3.9	74,455	71,088	3,366	4.5
1966	3,369	3,252	117	3.5	75,770	72,895	2,875	3.8
1967	3,450	3,296	154	4.5	77,347	74,372	2,975	3.8
1968	3,501	3,350	151	4.3	78,737	75,920	2,817	3.6
1969	3,594	3,449	145	4.0	80,734	77,902	2,832	3.5
1970	3,591	3,351	241	6.7	82,771	78,678	4,093	4.9
1971	3,624	3,348	276	7.6	84,382	79,367	5,016	5.9
1972	3,695	3,438	258	7.0	87,034	82,153	4,882	5.6
1973	3,803	3,579	223	5.9	89,429	85,064	4,365	4.9
1974	3,880	3,592	288	7.4	91,949	86,794	5,156	5.6
1975	3,892	3,406	486	12.5	93,775	85,846	7,929	8.5
1976	3,990	3,618	373	9.4	96,158	88,752	7,406	7.7
1977	4,114	3,777	337	8.2	99,009	92,017	6,991	7.1
1978	4,196	3,908	289	6.9	102,251	96,048	6,202	6.1
1979	4,314	3,979	335	7.8	104,962	98,824	6,137	5.8
1980	4,293	3,759	534	12.4	106,940	99,303	7,637	7.1
1981	4,306	3,777	529	12.3	108,670	100,397	8,273	7.6
1982	4,277	3,616	661	15.5	110,204	99,526	10,678	9.7
1983	4,287	3,679	608	14.2	111,550	100,834	10,717	9.6
1984	4,359	3,871	488	11.2	113,544	105,005	8,539	7.5

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: monthly), January 1985, Table A-1.

[a] For Michigan there is a break in the comparability of the data in 1956. For the U.S. there is not.

TABLE V-2. CIVILIAN LABOR FORCE, LABOR FORCE PARTICIPATION RATE, AND CIVILIAN EMPLOYMENT, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, IN MICHIGAN, AND THE UNITED STATES, FOR WHITES AND BLACKS, SEX, ANNUAL AVERAGES OF MONTHLY ESTIMATES FROM THE CURRENT POPULATION SURVEY: 1980-1984

Race and sex	1980	1981	1982	1983	1984
		Detroit SMSA			
Civilian labor force (000)					
White Men	n.a.	991	965	935	937
White Women	n.a.	678	684	697	707
Black Men	n.a.	165	176	168	178
Black Women	n.a.	148	147	155	159
Participation rate					
White Men	n.a.	81.0	79.0	77.6	77.0
White Women	n.a.	50.3	52.0	53.0	53.4
Black Men	n.a.	66.8	66.7	65.4	66.8
Black Women	n.a.	46.8	47.6	49.5	48.5
Civilian employment (000)					
White Men	n.a.	831	840	815	871
White Women	n.a.	536	600	618	648
Black Men	n.a.	115	113	117	127
Black Women	n.a.	108	102	107	116
		Michigan			
Civilian labor force (000)					
White Men	2,246	2,259	2,195	2,170	2,157
White Women	1,535	1,565	1,589	1,619	1,661
Black Men	249	231	236	240	262
Black Women	213	197	203	215	229
Participation rate					
White Men	78.1	78.7	77.2	76.9	77.3
White Women	50.5	51.0	52.2	53.3	54.3
Black Men	68.8	68.5	66.3	66.4	69.6
Black Women	51.6	47.3	48.3	50.2	51.0
Civilian employment (000)					
White Men	1,975	2,021	1,897	1,884	1,968
White Women	1,385	1,397	1,382	1,443	1,503
Black Men	187	169	152	168	190
Black Women	170	144	141	154	169

TABLE V-2. CIVILIAN LABOR FORCE, LABOR FORCE PARTICIPATION RATE, AND CIVILIAN EMPLOYMENT, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, IN MICHIGAN, AND THE UNITED STATES, FOR WHITES AND BLACKS, SEX, ANNUAL AVERAGES OF MONTHLY ESTIMATES FROM THE CURRENT POPULATION SURVEY: 1980-1984 (cont.)

Race and sex	1980	1981	1982	1983	1984
			United States		
Civilian labor force (000)					
White Men	54,473	54,895	55,133	55,480	56,062
White Women	39,127	40,157	41,010	41,541	42,431
Black Men	5,612	5,685	5,804	5,966	6,126
Black Women	5,253	5,401	5,527	5,681	5,907
Participation rate					
White Men	78.2	77.9	77.4	77.1	77.1
White Women	51.2	51.9	52.4	52.7	53.3
Black Men	70.6	70.0	70.1	70.6	70.8
Black Women	53.2	53.5	53.7	54.2	55.2
Civilian employment (000)					
White Men	51,127	51,315	50,287	50,621	52,462
White Women	36,587	37,394	37,615	38,272	39,659
Black Men	4,798	4,794	4,637	4,753	5,124
Black Women	4,515	4,561	4,552	4,622	4,995

SOURCE: Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1983, (Washington, D.C.: 1984), Bulletin 2216, Table 1, 12, and 23; similar tables for previous years, special release, and Employment and Earnings, January, 1985, p. 157-158.

n.a. Data not available.

TABLE V-3. LEVEL AND RATE OF CIVILIAN UNEMPLOYMENT, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, IN MICHIGAN, AND THE UNITED STATES, FOR WHITES AND BLACKS, BY SEX, ANNUAL AVERAGE OF MONTHLY ESTIMATES FROM THE CURRENT POPULATION SURVEY: 1980-1984

Race and sex	1980	1981	1982	1983	1984
			Detroit SMSA		
Total unemployed (000)					
White men	n.a.	94	125	119	66
White women	n.a.	77	89	79	59
Black men	n.a.	43	63	59	51
Black women	n.a.	37	45	41	44
Unemployment rate					
White men	n.a.	9.5	12.9	12.8	7.0
White women	n.a.	11.4	12.9	11.3	8.3
Black men	n.a.	26.3	36.0	30.4	28.8
Black women	n.a.	24.9	30.8	31.2	27.4
			Michigan		
Total unemployed (000)					
White men	271	238	298	286	190
White women	150	168	207	177	158
Black men	62	62	84	72	72
Black women	43	52	82	61	60
Unemployment rate					
White men	12.1	10.5	13.6	13.2	8.8
White women	9.8	10.7	13.0	10.9	9.5
Black men	24.8	26.9	35.6	30.0	27.5
Black women	20.2	26.6	30.5	28.5	26.2
			United States		
Total unemployed (000)					
White men	3,345	3,580	4,846	4,859	3,600
White women	2,540	2,762	3,395	3,270	2,772
Black men	815	891	1,167	1,213	1,003
Black women	738	840	975	1,059	911
Unemployment rate					
White men	6.1	6.5	8.8	8.8	6.4
White women	6.5	6.9	8.3	7.9	6.5
Black men	14.5	15.7	20.1	20.3	16.4
Black women	12.4	15.6	17.6	18.6	15.4

SOURCE: Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1983, (Washington, D.C.: 1984), Bulletin 2216, Table 1, 12, and 23; similar tables for previous years, special release, and Employment and Earnings, January, 1985, p. 157-158.

n.a.: Data not available.

TABLE V-4. FULL AND PART-TIME STATUS OF THE CIVILIAN LABOR FORCE, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN MICHIGAN AND THE UNITED STATES: 1981-1984

(In thousands)

	1981	1982	1983	1984
		Michigan		
Full-time labor force				
Employed:				
Full-time schedules	2,987	2,778	2,840	3,003
Part-time-econ. reason	211	273	300	277
Unemployed (looking for full-time work):				
Number	440	556	513	399
Pct. full-time force	12.1	15.4	14.1	10.8
TOTAL	3,638	3,607	3,654	3,679
Part-time labor force				
Employed on voluntary part-time	576	564	553	591
Unemployed (looking for part-time work):				
Number	88	105	97	89
Pct. part-time force	13.3	15.7	14.9	13.1
TOTAL	664	669	650	680
		United States		
Full-time labor force				
Employed:				
Full-time schedules	81,358	79,118	80,395	84,831
Part-time, econ. reason	4,768	6,169	6,266	5,743
Unemployed (looking for full-time work):				
Number	6,795	9,006	9,075	7,057
Pct. full-time force	7.3	9.6	9.5	7.2
TOTAL	92,921	94,293	95,736	97,632
Part-time labor force				
Employed on voluntary part-time	14,271	14,239	14,172	14,431
Unemployed (looking for part-time work):				
Number	1,477	1,672	1,642	1,481
Pct. part-time force	9.4	10.5	10.4	9.3
TOTAL	15,749	15,912	15,814	15,912

SOURCE: Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1983 (Washington, D.C., 1984), Table 13; similar documents for previous years; special release; Employment and Earnings, January 1985, p. 84; and similar documents for previous years.

TABLE V-5. OCCUPATIONAL DISTRIBUTION OF EMPLOYMENT, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, IN MICHIGAN, AND IN THE UNITED STATES, BY SEX: 1983 AND 1984

(percentages)

	Detroit		Michigan		United States	
	1983	1984	1983	1984	1983	1984
Executive, administrative, and managerial						
Men	11.3	12.3	11.1	11.7	12.8	13.0
Women	7.4	8.1	6.6	7.5	7.9	8.5
Total	9.6	10.5	9.1	9.8	10.7	11.0
Professional specialty						
Men	13.9	11.9	11.6	10.2	11.7	11.6
Women	14.4	14.2	14.2	13.1	14.0	14.0
Total	14.1	12.9	12.7	11.5	12.7	12.7
Technicians and related support						
Men	3.7	3.8	2.9	3.1	2.8	2.8
Women	3.4	2.7	3.1	3.0	3.3	3.3
Total	3.6	3.3	3.0	3.0	3.0	3.0
Sales						
Men	10.7	10.6	10.2	9.8	10.9	11.1
Women	13.2	14.7	12.2	13.4	12.8	13.1
Total	11.8	12.4	11.1	11.4	11.7	12.0
Administrative support, including clerical						
Men	5.6	6.4	4.7	5.2	5.8	5.7
Women	30.9	31.4	28.0	28.8	29.7	29.1
Total	16.7	17.3	14.9	15.5	16.3	15.9
Service						
Men	10.2	10.9	10.2	9.6	9.7	9.4
Women	20.2	19.2	22.3	20.8	18.9	18.7
Total	14.6	14.5	15.5	14.5	13.7	13.5
Precision production, crafts, and repair						
Men	18.4	18.3	19.5	20.2	19.9	20.2
Women	2.5	2.1	2.3	2.4	2.3	2.4
Total	11.4	11.3	12.0	15.0	12.2	12.4
Machine operators, assemblers, and inspectors						
Men	13.1	13.4	14.2	14.5	7.9	8.0
Women	5.3	4.9	7.6	7.1	7.4	7.1
Total	9.7	9.7	11.3	11.3	7.7	7.6
Transportation and material moving						
Men	5.7	5.6	6.5	6.7	6.8	6.9
Women	1.0	.8	1.0	.9	.7	.8
Total	3.7	3.5	4.1	4.2	4.2	4.3
Handlers, equipment cleaners, helpers, and laborers						
Men	5.4	5.0	5.6	5.5	6.1	6.2
Women	1.3	1.0	1.9	1.8	1.6	1.6
Total	3.6	3.3	4.0	3.9	4.1	4.2
Farming, forestry, and fishing						
Men	n.a.	1.6	3.6	3.4	5.5	5.1
Women	n.a.	.8	.9	1.1	1.3	1.2
Total	n.a.	1.2	2.4	2.4	3.7	3.4
All occupations						
Men	100.0	100.0	100.0	100.0	100.0	100.0
Women	100.0	100.0	100.0	100.0	100.0	100.0
Total	100.0	100.0	100.0	100.0	100.0	100.0

SOURCE: Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1983 (Washington, D.C.: 1984), Tables 15 and 25; special release; and Employment and earnings, January 1985, p. 174.

TABLE V-6. UNEMPLOYED PERSONS, BY DURATION OF UNEMPLOYMENT, DATA BASED ON A HOUSEHOLD SAMPLE IN MICHIGAN AND THE UNITED STATES: 1981-1984

	Michigan				United States			
	1981	1982	1983	1984	1981	1982	1983	1984
Percentage distribution by duration of unemployment:								
Less than 15 weeks	60.5	58.6	52.6	62.9	72.4	67.4	60.7	67.9
15-26 weeks	13.5	16.1	14.9	11.5	13.6	16.0	15.4	12.9
27-51 weeks	11.5	25.3[a]	32.5[a]	25.6[a]	7.3	16.6[a]	23.9[a]	19.1[a]
52 weeks or longer	14.5				6.8			
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Thousands of persons	528	661	610	488	8,273	10,678	10,717	8,539

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: monthly), Table 17.

a. Percent unemployed 27 weeks and over.

TABLE V-7. UNEMPLOYED PERSONS, BY REASON FOR UNEMPLOYMENT, DATA BASED ON A HOUSEHOLD SAMPLE IN MICHIGAN AND THE UNITED STATES: 1981-1984

	Michigan				United States			
	1981	1982	1983	1984	1981	1982	1983	1984
Job losers:								
On lay off	29.5	33.2	30.0	n.a.	17.3	20.1	16.6	13.7
Others	25.9	26.6	26.5	n.a.	34.3	38.6	41.8	38.1
TOTAL	55.4	59.8	56.5	n.a.	51.6	58.7	58.4	51.8
Job leavers	6.2	4.8	6.5	n.a.	11.2	7.9	7.7	9.6
Reentrants	25.0	22.4	23.8	n.a.	25.4	22.3	22.5	25.6
New entrants	13.4	13.0	10.2	n.a.	11.9	11.1	11.3	13.0
GRAND TOTAL	100.0	100.0	100.0	n.a.	100.0	100.0	100.0	100.0
Thousands of persons	528	661	610	n.a.	8,273	10,678	10,717	8,539

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: monthly), Table 13.

TABLE V-8. MICHIGAN AND U.S. CIVILIAN LABOR FORCE, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1974-1984

(Numbers in thousands)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1974	3,868	3,873	3,848	3,829	3,832	3,880	3,951	3,934	3,856	3,921	3,914	3,857
1975	3,902	3,905	3,934	3,880	3,835	3,916	3,894	3,914	3,859	3,853	3,929	3,882
1976	3,859	3,957	3,955	3,940	3,960	4,011	4,037	4,080	4,013	4,013	4,042	4,012
1977	4,017	4,086	4,093	4,057	4,040	4,168	4,141	4,159	4,122	4,171	4,180	4,136
1978	4,172	4,166	4,131	4,160	4,160	4,245	4,232	4,205	4,188	4,186	4,233	4,276
1979	4,251	4,281	4,282	4,246	4,320	4,375	4,395	4,310	4,316	4,326	4,351	4,319
1980	4,258	4,277	4,227	4,222	4,309	4,396	4,352	4,343	4,290	4,298	4,285	4,265
1981	4,214	4,199	4,213	4,280	4,343	4,410	4,410	4,389	4,301	4,346	4,315	4,259
1982	4,219	4,230	4,240	4,204	4,307	4,321	4,386	4,357	4,283	4,252	4,233	4,295
1983	4,257	4,234	4,222	4,283	4,370	4,412	4,393	4,365	4,293	4,232	4,171	4,212
1984	4,146	4,250	4,305	4,344	4,413	4,473	4,507	4,448	4,362	4,372	4,371	4,318
						United States						
1974	89,924	90,273	90,486	90,366	90,830	93,481	94,238	93,446	92,449	92,909	92,638	92,368
1975	92,200	91,972	92,464	92,459	92,888	95,174	96,053	95,525	94,023	94,510	94,041	93,995
1976	93,938	94,075	94,400	94,782	94,925	97,490	98,605	98,133	96,430	96,999	97,116	97,004
1977	96,197	96,837	97,277	97,352	97,755	100,743	100,960	100,744	99,367	100,144	100,522	100,213
1978	99,664	99,641	100,166	100,610	101,092	104,010	104,512	103,946	102,748	103,474	103,586	103,565
1979	102,802	103,185	103,606	103,198	103,476	106,210	107,096	106,489	105,510	106,084	105,871	106,040
1980	105,344	105,412	105,510	105,592	106,233	108,311	109,268	108,404	106,989	107,673	107,532	107,009
1981	106,885	107,015	107,634	107,906	108,586	109,904	110,742	110,099	108,273	109,244	109,179	108,574
1982	108,014	108,324	108,761	108,814	109,914	111,569	112,526	111,887	110,546	110,767	110,855	110,477
1983	109,779	109,647	109,873	109,875	110,308	113,383	113,980	113,578	112,197	112,042	112,147	111,795
1984	111,025	111,368	111,828	112,152	113,251	115,393	116,198	115,076	113,843	114,250	114,115	114,028

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Figures represent the sum of civilian employment and unemployment and are not seasonally adjusted.

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate[c]	Government[d]	Manufacturing	Other[e]
Alcona, Iosco						
1978	12,600	1,525	12.1	2,375	1,400	3,750
1979	13,100	1,550	11.8	2,625	1,450	3,650
1980	13,075	2,000	15.3	2,825	1,100	3,700
1981	13,175	1,925	14.6	2,650	1,125	3,750
1982	13,300	2,125	16.0	2,900	1,050	3,400
1983	13,500	2,350	17.4	2,650	1,025	3,600
1984	13,350	1,875	14.0	2,625	1,125	3,675
Alger						
1978	3,400	425	12.5	550	850	825
1979	3,650	450	12.3	575	900	850
1980	3,675	525	14.3	675	875	800
1981	3,700	600	16.2	550	750	850
1982	3,750	675	18.0	550	750	850
1983	3,825	600	15.7	575	800	850
1984	3,750	525	14.0	550	825	875
Allegan						
1978	33,075	1,925	5.8	3,600	7,425	6,800
1979	33,625	2,250	6.7	3,900	7,575	6,650
1980	34,225	3,825	11.2	3,875	7,000	6,850
1981	35,025	3,900	11.1	3,500	7,275	6,800
1982	37,225	5,525	14.8	3,375	7,375	6,675
1983	37,950	5,450	14.4	3,375	7,625	6,850
1984	38,250	4,025	10.5	3,400	8,125	7,200
Alpena						
1978	15,600	1,950	12.5	2,425	2,850	5,600
1979	15,600	1,725	11.1	2,425	2,900	5,550
1980	15,800	2,200	13.9	2,475	2,725	5,[illegible]00
1981	15,650	2,250	14.4	2,425	2,700	5,425
1982	15,450	3,225	20.9	2,375	2,150	4,775
1983	15,375	2,800	18.2	2,500	2,100	5,075
1984	14,950	1,950	13.0	2,525	2,325	5,075
Antrim						
1978	6,925	625	9.0	925	1,375	1,550
1979	7,600	775	10.2	1,100	1,400	1,700
1980	7,525	1,175	15.6	1,175	1,200	1,650
1981	7,450	1,325	17.8	1,100	1,050	1,625
1982	7,375	1,550	21.0	1,075	975	1,425
1983	7,175	1,325	18.5	1,050	950	1,475
1984	7,250	950	13.1	1,150	1,100	1,525

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment[a]		Wage and salary workers[b]		
		Number	Rate[c]	Government[d]	Manufacturing	Other[e]
Arenac						
1978	6,675	725	10.9	750	800	1,425
1979	6,400	550	8.6	775	725	1,450
1980	6,175	875	14.2	775	375	1,550
1981	6,200	700	11.3	725	375	1,650
1982	6,575	850	12.9	675	325	1,650
1983	7,075	1,025	14.5	675	375	1,825
1984	7,675	975	10.3	725	425	2,025
Baraga						
1978	3,250	350	10.8	775	850	900
1979	3,300	375	11.4	750	750	975
1980	3,300	450	13.6	775	675	975
1981	3,125	475	15.2	725	625	875
1982	3,275	725	22.1	700	525	925
1983	3,250	700	21.5	675	475	925
1984	3,250	600	18.5	675	475	1,000
Barry, Calhoun						
1978	80,700	5,400	6.7	12,100	24,300	30,600
1979	80,100	5,600	7.0	12,200	23,800	30,300
1980	80,300	9,200	11.5	12,500	20,900	30,500
1981	79,700	9,100	11.4	12,100	19,600	30,400
1982	80,700	13,100	16.2	11,900	18,000	29,800
1983	80,000	11,600	14.5	12,200	17,200	29,200
1984	80,000	9,000	11.3	12,500	17,900	30,100
Bay						
1978	50,300	3,400	6.8	4,800	11,100	19,100
1979	51,500	4,000	7.8	5,500	10,800	19,300
1980	54,100	8,000	14.8	5,600	9,400	19,600
1981	53,200	6,600	12.4	5,400	9,100	19,900
1982	52,700	8,400	15.9	4,900	8,400	18,900
1983	52,900	8,700	16.4	5,300	7,900	18,500
1984	53,000	7,600	14.3	5,400	8,100	19,000
Benzie						
1978	4,175	375	9.0	675	625	1,450
1979	4,425	575	13.0	675	700	1,375
1980	4,425	700	15.8	725	650	1,350
1981	4,625	925	20.2	700	600	1,350
1982	4,575	1,025	22.4	675	525	1,225
1983	4,675	1,050	22.5	750	550	1,225
1984	4,675	850	18.2	750	575	1,350

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment[a]		Wage and salary workers[b]		
		Number	Rate[c]	Government[d]	Manufacturing	Other[e]
Berrien						
1978	73,900	6,200	8.4	8,300	26,100	30,700
1979	74,300	6,700	9.0	8,800	25,100	30,500
1980	73,300	9,500	13.0	9,000	21,400	30,600
1981	72,900	9,500	13.0	8,700	21,000	29,900
1982	71,500	11,500	16.1	7,700	19,100	28,400
1983	71,500	11,100	15.5	7,900	18,600	28,800
1984	71,600	8,800	12.3	8,200	19,300	30,000
Branch						
1978	23,200	1,375	5.9	3,650	5,425	5,050
1979	23,500	1,850	7.9	3,950	5,375	4,750
1980	21,750	2,925	13.4	3,950	4,050	4,525
1981	20,575	2,525	12.3	3,600	3,725	4,300
1982	19,325	3,000	15.5	3,100	4,125	4,125
1983	18,800	2,500	13.3	2,825	3,450	3,775
1984	19,175	2,150	11.2	2,900	3,725	3,850
Calhoun - see Barry, Calhoun						
Cass						
1978	24,650	1,425	5.8	2,100	4,825	3,750
1979	23,125	1,850	8.0	2,200	4,150	3,550
1980	21,450	2,700	12.6	2,400	3,025	3,600
1981	21,275	2,375	11.2	2,225	3,350	3,625
1982	20,925	3,050	14.6	2,050	3,800	3,275
1983	22,725	2,650	11.7	2,075	3,400	3,475
1984	23,975	2,450	10.2	2,175	3,675	3,700
Charlevoix						
1978	9,500	950	10.0	1,050	2,725	2,775
1979	9,900	925	9.3	1,275	2,750	2,825
1980	9,550	1,400	14.7	1,375	2,175	2,800
1981	9,575	1,450	15.1	1,275	2,125	2,775
1982	9,675	1,775	18.3	1,250	1,900	2,675
1983	9,475	1,600	16.9	1,275	1,900	2,650
1984	9,675	1,400	14.5	1,300	2,150	2,800
Cheboygan						
1978	9,375	1,875	20.0	900	1,175	3,175
1979	9,800	1,575	16.1	1,050	1,275	3,375
1980	10,150	1,900	18.7	1,250	1,200	3,400
1981	10,525	2,100	20.0	1,050	1,200	3,500
1982	10,325	2,225	21.5	1,200	1,075	3,125
1983	10,425	2,550	24.5	1,125	925	3,250
1984	10,475	2,300	22.0	1,150	875	3,475

TABLE V-9. MICHIGAN AND U.S. CIVILIAN EMPLOYMENT, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1974-1984

(Numbers in thousands)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1974	3,645	3,590	3,524	3,552	3,577	3,607	3,654	3,657	3,582	3,664	3,579	3,476
1975	3,367	3,337	3,347	3,350	3,363	3,359	3,384	3,456	3,430	3,466	3,546	3,463
1976	3,463	3,533	3,535	3,547	3,592	3,612	3,651	3,700	3,678	3,712	3,704	3,677
1977	3,660	3,687	3,695	3,761	3,743	3,816	3,776	3,775	3,815	3,901	3,857	3,845
1978	3,833	3,868	3,835	3,886	3,887	3,945	3,924	3,867	3,945	3,956	3,954	3,988
1979	3,910	3,930	3,942	3,880	4,009	4,059	4,057	3,986	4,007	4,013	4,007	3,952
1980	3,818	3,796	3,759	3,696	3,701	3,775	3,735	3,795	3,775	3,771	3,748	3,745
1981	3,631	3,598	3,659	3,759	3,849	3,923	3,882	3,906	3,840	3,842	3,798	3,645
1982	3,543	3,548	3,517	3,552	3,693	3,703	3,741	3,723	3,662	3,619	3,539	3,554
1983	3,533	3,536	3,503	3,618	3,730	3,765	3,820	3,780	3,766	3,704	3,683	3,711
1984	3,616	3,714	3,765	3,864	3,915	3,968	3,998	3,990	3,932	3,930	3,904	3,861
						United States						
1974	84,843	85,061	85,659	85,994	86,611	88,022	88,897	88,479	87,162	87,779	86,863	86,169
1975	83,928	83,573	84,018	84,551	85,173	86,507	87,742	87,726	86,399	87,160	86,700	86,689
1976	85,652	85,932	86,769	87,786	88,510	89,727	90,908	90,690	89,281	90,041	89,892	89,850
1977	88,217	88,601	89,597	90,660	91,475	93,154	93,879	93,846	92,788	93,779	94,027	94,183
1978	92,616	92,755	93,545	94,783	95,486	97,530	97,917	97,855	96,790	97,851	97,788	97,669
1979	96,201	96,536	97,282	97,478	98,057	99,800	100,814	100,174	99,533	100,120	99,907	100,013
1980	98,111	98,235	98,527	98,569	98,732	99,830	100,665	100,202	99,334	99,999	99,850	99,579
1981	98,139	98,401	99,364	100,345	100,855	101,419	102,612	102,152	100,389	101,028	100,502	99,562
1982	97,831	97,946	98,471	98,858	99,957	100,683	101,490	101,177	99,851	99,825	99,379	98,849
1983	97,262	97,265	97,994	98,840	99,543	101,813	103,273	103,167	102,366	102,659	103,018	102,803
1984	101,270	101,961	102,770	103,628	105,096	106,812	107,484	106,694	105,792	106,262	106,246	106,049

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Employed persons comprise two groups. The first includes all those who were 16 years old or older and, during the survey week, did any work at all as paid employees, or in their own business or profession, or on their own farm, or who worked 15 hours or more as unpaid workers in a family-operated enterprise. The second includes all those who did not work but had jobs or businesses from which they were temporarily absent due to illness, bad weather, vacation, labor-management dispute, or various personal reasons--whether or not they were paid by their employers for the time off and whether or not they were seeking other jobs. Data are not seasonally adjusted.

TABLE V-10. SEASONALLY ADJUSTED MICHIGAN AND U.S. CIVILIAN EMPLOYMENT, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1975-1985

(Numbers in thousands)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Michigan												
1975	3,420	3,377	3,395	3,388	3,374	3,344	3,361	3,399	3,419	3,419	3,502	3,471
1976	3,517	3,572	3,583	3,581	3,606	3,595	3,632	3,644	3,662	3,666	3,664	3,682
1977	3,715	3,724	3,744	3,797	3,758	3,794	3,759	3,718	3,793	3,853	3,822	3,844
1978	3,894	3,912	3,893	3,927	3,900	3,911	3,904	3,807	3,918	3,905	3,921	3,985
1979	3,982	3,984	4,013	3,931	4,013	4,010	4,024	3,917	3,971	3,962	3,977	3,952
1980	3,904	3,866	3,847	3,752	3,691	3,713	3,681	3,716	3,731	3,725	3,722	3,757
1981	3,732	3,682	3,759	3,817	3,823	3,850	3,806	3,816	3,789	3,805	3,783	3,672
1982	3,657	3,643	3,624	3,603	3,653	3,619	3,646	3,627	3,610	3,590	3,537	3,597
1983	3,655	3,636	3,610	3,660	3,679	3,674	3,710	3,681	3,716	3,683	3,694	3,764
1984	3,740	3,816	3,869	3,897	3,857	3,874	3,879	3,893	3,884	3,916	3,924	3,918
1985	3,913	3,990	4,041	3,930	3,874	3,856	3,804					
United States												
1975	85,627	85,256	85,187	85,189	85,451	85,355	85,894	86,234	86,279	86,370	86,456	86,665
1976	87,400	87,672	87,985	88,416	88,794	88,563	89,093	89,223	89,173	89,274	89,634	89,803
1977	89,928	90,342	90,808	91,271	91,754	91,959	92,084	92,441	92,702	93,052	93,761	94,105
1978	94,384	94,519	94,755	95,394	95,769	96,343	96,090	96,431	96,670	97,133	97,485	97,581
1979	97,948	98,329	98,480	98,103	98,331	98,679	99,006	98,776	99,340	99,404	99,574	99,933
1980	99,879	99,995	99,713	99,233	98,945	98,682	98,796	98,824	99,077	99,317	99,545	99,634
1981	99,987	100,202	100,594	101,069	101,040	100,234	100,694	100,679	100,050	100,359	100,197	99,652
1982	99,737	99,785	99,738	99,584	100,088	99,435	99,471	99,636	99,487	99,202	99,098	99,062
1983	99,233	99,144	99,303	99,590	99,634	100,444	101,173	101,589	101,983	102,042	102,702	103,029
1984	103,294	103,888	104,123	104,402	105,162	105,391	105,377	105,148	105,394	105,649	105,932	106,273
1985	106,391	106,685	107,119	106,945	106,960	106,370	106,862					

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Unemployed persons include those 16 year old or older who did not work at all during the survey week, were looking for work, and were available for work during the reference period, except for temporary illness. This includes those who were available for work and waiting to be recalled from layoff or were waiting to report to a new wage or salary job scheduled to start within the following 30 days.

TABLE V-11. MICHIGAN AND U.S. CIVILIAN UNEMPLOYMENT, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1974-1984

(Numbers in thousands)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1974	223	284	324	277	255	273	296	277	275	258	334	381
1975	535	568	587	529	471	557	510	458	429	387	383	420
1976	396	423	420	394	368	399	387	380	335	302	338	335
1977	357	400	398	297	297	352	366	383	308	270	323	291
1978	338	298	296	274	273	299	308	338	243	229	280	288
1979	341	351	341	365	311	316	338	324	309	313	344	368
1980	439	482	468	525	608	622	618	549	515	527	537	520
1981	583	601	554	522	494	487	528	484	460	504	517	614
1982	676	683	722	652	614	618	645	634	621	633	694	741
1983	724	699	719	666	640	646	573	585	526	528	488	501
1984	529	536	540	480	499	505	509	459	429	442	468	457
						United States						
1974	5,081	5,212	4,826	4,372	4,219	5,459	5,341	4,967	5,287	5,131	5,775	6,199
1975	8,272	8,399	8,446	7,908	7,715	8,667	8,311	7,799	7,624	7,350	7,341	7,307
1976	8,286	8,143	7,631	6,996	6,415	7,772	7,697	7,443	7,148	6,958	7,224	7,154
1977	7,980	8,237	7,680	6,692	6,280	7,589	7,081	6,897	6,579	6,365	6,495	6,031
1978	7,048	6,886	6,621	5,826	5,605	6,481	6,597	6,090	5,958	5,624	5,797	5,896
1979	6,602	6,649	6,325	5,720	5,419	6,409	6,282	6,315	5,978	5,964	5,964	6,027
1980	7,234	7,177	6,983	7,023	7,501	8,481	8,603	8,202	7,655	7,674	7,682	7,430
1981	8,746	8,614	8,271	7,561	7,731	8,485	8,130	7,947	7,884	8,216	8,676	9,013
1982	10,183	10,378	10,290	9,957	9,957	10,886	11,036	10,710	10,695	10,942	11,476	11,628
1983	12,517	12,382	11,879	11,035	10,765	11,570	10,707	10,411	9,830	9,383	9,129	8,992
1984	9,755	9,407	9,057	8,525	8,154	8,582	8,714	8,382	8,051	7,989	7,869	7,978

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Unemployed persons include those 16 years old or older who did not work at all during the survey week, were looking for work, and were available for work during the reference period, except for temporary illness. This includes those who were available for work and waiting to be recalled from layoff or were waiting to report to a new wage or salary job scheduled to start within the following 30 days.

TABLE V-12. SEASONALLY ADJUSTED MICHIGAN AND U.S. UNEMPLOYMENT RATES, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1975-1985

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1975	13.3	13.3	13.6	13.2	12.5	13.8	12.7	12.2	12.0	11.7	10.6	11.0
1976	9.8	9.5	9.3	9.6	9.6	9.5	9.2	9.7	9.2	9.0	9.1	8.6
1977	8.4	8.7	8.6	7.0	7.6	8.1	8.4	9.6	8.4	7.9	8.3	7.4
1978	7.5	6.1	6.2	6.3	6.8	6.8	6.8	8.4	6.8	6.8	7.2	7.1
1979	7.3	7.1	7.1	8.2	7.4	7.1	7.2	8.0	8.2	8.5	8.4	8.9
1980	9.4	10.1	10.1	12.0	14.3	14.3	13.9	13.3	13.2	13.4	13.1	12.4
1981	12.7	13.1	12.0	11.8	11.6	11.2	11.8	11.7	11.9	12.6	12.5	14.5
1982	14.8	14.9	15.8	15.1	14.5	14.6	14.7	15.3	15.8	15.8	16.9	17.2
1983	15.8	15.2	15.8	15.3	15.0	14.9	13.1	14.1	13.5	13.3	12.1	11.9
1984	11.6	11.5	11.4	10.9	11.6	11.5	11.3	10.9	11.0	10.9	11.1	10.6
1985	11.0	9.2	9.3	10.2	10.1	10.3	10.9					
						United States						
1975	8.1	8.1	8.6	8.8	9.0	8.8	8.6	8.4	8.4	8.4	8.3	8.2
1976	7.9	7.7	7.6	7.7	7.4	7.6	7.8	7.8	7.6	7.7	7.8	7.8
1977	7.5	7.6	7.4	7.2	7.0	7.2	6.9	7.0	6.8	6.8	6.8	6.4
1978	6.4	6.3	6.3	6.1	6.0	5.9	6.2	5.9	6.0	5.8	5.9	6.0
1979	5.9	5.9	5.8	5.8	5.6	5.7	5.7	6.0	5.9	6.0	5.9	6.0
1980	6.3	6.3	6.3	6.9	7.5	7.6	7.8	7.7	7.5	7.5	7.5	7.2
1981	7.5	7.4	7.4	7.2	7.5	7.5	7.2	7.4	7.6	7.9	8.3	8.5
1982	8.6	8.9	9.0	9.3	9.4	9.6	9.8	9.8	10.1	10.4	10.7	10.7
1983	10.4	10.4	10.3	10.2	10.2	10.1	9.4	9.4	9.2	8.8	8.4	8.2
1984	8.0	7.8	7.8	7.8	7.5	7.2	7.5	7.5	7.4	7.3	7.1	7.2
1985	7.4	7.3	7.3	7.3	7.3	7.3	7.3					

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Figures show unemployment as a percentage of civilian labor force and are not seasonally adjusted.

TABLE V-13. MICHIGAN AND U.S. UNEMPLOYMENT RATES, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1974-1984

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1974	5.8	7.3	8.4	7.2	6.7	7.0	7.5	7.0	7.1	6.6	8.5	9.9
1975	13.7	14.5	14.9	13.6	12.3	14.2	13.1	11.7	11.1	10.0	9.8	10.8
1976	10.3	10.7	10.6	10.0	9.3	9.9	9.6	9.3	8.4	7.5	8.4	8.3
1977	8.9	9.8	9.7	7.3	7.4	8.4	8.8	9.2	7.5	6.5	7.7	7.0
1978	8.1	7.2	7.2	6.6	6.6	7.0	7.3	8.0	5.8	5.5	6.6	6.7
1979	8.0	8.2	8.0	8.6	7.2	7.2	7.7	7.5	7.2	7.2	7.9	8.5
1980	10.3	11.3	11.1	12.4	14.1	14.1	14.2	12.6	12.0	12.3	12.5	12.2
1981	13.8	14.3	13.1	12.2	11.4	11.1	12.0	11.0	10.7	11.6	12.0	14.4
1982	16.0	16.1	17.0	15.5	14.3	14.3	14.7	14.5	14.5	14.9	16.4	17.3
1983	17.0	16.5	17.0	15.5	14.7	14.6	13.1	13.4	12.3	12.5	11.7	11.9
1984	12.8	12.6	12.5	11.0	11.3	11.3	11.3	10.3	9.8	10.1	10.7	10.6
						United States						
1974	5.7	5.8	5.3	4.8	4.6	5.8	5.7	5.3	5.7	5.5	6.2	6.7
1975	9.0	9.1	9.1	8.6	8.3	9.1	8.7	8.2	8.1	7.8	7.8	7.8
1976	8.8	8.7	8.1	7.4	6.8	8.0	7.8	7.6	7.4	7.2	7.4	7.4
1977	8.3	8.5	7.9	6.9	6.4	7.5	7.0	6.8	6.6	6.4	6.5	6.0
1978	7.1	6.9	6.6	5.8	5.5	6.2	6.3	5.9	5.8	5.4	5.6	5.7
1979	6.4	6.4	6.1	5.5	5.2	6.0	5.9	5.9	5.7	5.6	5.6	5.7
1980	6.9	6.8	6.6	6.7	7.1	7.8	7.9	7.6	7.2	7.1	7.1	6.9
1981	8.2	8.0	7.7	7.0	7.1	7.7	7.3	7.2	7.3	7.5	7.9	8.3
1982	9.4	9.6	9.5	9.2	9.1	9.8	9.8	9.6	9.7	9.9	10.4	10.5
1983	11.4	11.3	10.8	10.0	9.8	10.2	9.4	9.2	8.8	8.4	8.1	8.3
1984	8.8	8.4	8.1	7.6	7.2	7.4	7.5	7.3	7.1	7.0	6.9	7.0

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Figures show unemployment as a percentage of civilian labor force and are not seasonally adjusted.

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate[c]	Government[a]	Manufacturing	Other[e]
Chippewa						
1978	12,325	2,350	19.1	3,350	225	4,325
1979	11,750	2,100	17.9	3,625	300	4,100
1980	11,900	2,150	18.1	3,625	450	4,075
1981	12,725	2,550	20.0	3,500	550	4,250
1982	12,975	3,025	23.3	3,350	525	4,125
1983	12,900	2,875	22.3	3,475	475	3,975
1984	12,950	2,650	20.5	3,500	525	4,125
Clare						
1978	9,725	1,000	10.3	1,275	1,150	2,500
1979	9,950	1,050	10.6	1,425	1,050	2,625
1980	9,350	1,450	15.5	1,475	625	2,650
1981	9,650	1,425	14.8	1,425	575	2,725
1982	9,775	1,525	15.6	1,300	550	2,675
1983	10,325	1,625	15.7	1,325	525	2,925
1984	11,000	1,550	14.1	1,375	575	3,200
Clinton, Eaton, Ingham, Ionia						
1978	225,100	14,000	6.2	64,800	44,500	79,500
1979	231,300	13,000	5.6	66,200	44,700	83,800
1980	236,700	24,600	10.4	67,400	37,800	86,000
1981	243,400	24,700	10.1	65,400	40,900	86,400
1982	241,200	29,000	12.0	63,400	37,200	83,400
1983	244,900	24,700	10.1	65,300	39,100	84,400
1984	253,500	26,300	10.4	65,200	38,800	89,500
Crawford						
1978	3,900	475	12.2	600	550	1,375
1979	3,850	575	14.9	650	325	1,450
1980	3,875	600	15.5	675	300	1,525
1981	4,125	750	18.2	700	250	1,575
1982	4,475	775	17.3	750	275	1,500
1983	4,575	825	18.0	675	250	1,725
1984	4,450	675	15.2	650	325	1,675
Delta						
1978	15,925	1,625	10.2	2,200	3,350	5,700
1979	16,950	1,875	11.1	2,400	3,400	5,850
1980	17,175	1,975	11.5	2,500	3,075	6,350
1981	19,125	2,000	10.5	2,325	3,150	7,600
1982	18,600	3,350	18.0	2,250	2,800	6,550
1983	18,100	3,450	19.1	2,200	2,700	5,975
1984	17,700	2,875	16.2	2,225	2,525	6,175

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate[c]	Government[d]	Manufacturing	Other[e]
Dickinson						
1978	11,975	875	7.3	1,975	2,325	5,375
1979	12,425	850	6.8	2,100	2,325	5,650
1980	12,675	1,050	8.3	2,275	2,275	5,725
1981	12,850	1,575	12.3	2,175	2,100	5,425
1982	12,450	1,875	15.1	2,175	1,900	5,225
1983	13,075	1,550	11.9	2,175	1,950	5,500
1984	14,500	1,450	10.0	2,175	2,125	6,550
Eaton - see Clinton, Eaton, Ingham, Ionia						
Emmet						
1978	13,325	1,150	8.6	1,250	1,300	6,300
1979	13,450	1,275	9.5	1,300	1,375	6,200
1980	13,575	1,575	11.6	1,375	1,250	6,225
1981	14,000	2,000	14.3	1,425	1,150	6,125
1982	13,850	1,975	14.3	1,475	1,150	5,975
1983	14,050	2,075	14.8	1,400	1,050	5,925
1984	14,575	1,975	13.6	1,425	1,125	6,275
Genesee, Shiawassee						
1978	215,700	17,100	7.9	25,500	85,600	86,400
1979	223,400	19,600	8.8	28,300	85,100	88,300
1980	227,000	40,100	17.7	29,700	70,400	86,200
1981	225,700	34,000	15.1	28,200	72,600	86,900
1982	224,200	46,700	20.8	27,300	61,900	83,100
1983	221,500	36,700	16.6	27,300	65,000	83,900
1984	223,800	28,000	12.5	28,000	70,300	87,400
Gladwin - see Midland, Gladwin						
Gogebic						
1978	8,050	800	9.9	1,525	950	2,725
1979	8,275	650	7.9	1,550	925	2,875
1980	8,525	725	8.5	1,600	900	3,025
1981	9,000	950	10.6	1,525	675	3,250
1982	8,975	1,325	14.8	1,525	475	3,125
1983	8,725	1,450	16.6	1,525	575	2,875
1984	8,425	1,375	16.3	1,500	500	2,775
Grand Traverse, Kalkaska, Leelanau						
1978	39,500	2,925	7.4	5,350	4,475	18,650
1979	42,175	2,750	6.5	5,500	4,925	19,800
1980	43,675	3,875	8.9	6,125	4,625	20,275
1981	45,575	5,150	11.3	5,675	4,875	20,450
1982	44,450	6,000	13.5	5,275	4,475	19,775
1983	45,225	6,525	14.4	5,450	4,425	18,850
1984	47,750	5,500	11.5	5,425	5,150	20,600

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County of group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate[c]	Govern-ment[d]	Manu-facturing	Other[e]
Gratiot						
1978	17,325	2,225	12.8	1,725	3,175	6,175
1979	16,400	1,675	10.2	2,000	2,850	6,175
1980	16,525	2,250	13.6	2,200	2,475	6,125
1981	16,650	2,025	12.2	2,000	2,825	5,975
1982	16,325	2,400	14.7	1,900	2,725	5,750
1983	16,375	2,225	13.6	1,825	2,750	5,550
1984	17,175	2,250	13.1	1,950	2,850	5,875
Hillsdale						
1978	20,425	1,100	5.4	2,150	4,725	4,500
1979	21,050	1,650	7.8	2,200	4,525	4,775
1980	20,500	2,350	11.5	2,375	3,550	5,000
1981	21,025	2,025	9.6	2,200	3,825	5,050
1982	20,850	3,000	14.4	2,100	3,400	4,975
1983	20,825	2,525	12.1	2,125	3,725	4,600
1984	21,375	2,000	9.4	2,125	4,100	4,650
Houghton, Keewenaw						
1978	15,600	1,750	11.2	4,200	825	5,950
1979	15,325	1,525	10.0	4,425	800	5,700
1980	15,600	1,825	11.7	4,650	850	5,650
1981	15,875	2,000	12.6	4,475	800	5,575
1982	15,900	2,375	14.9	4,350	650	5,375
1983	16,525	2,300	13.9	4,500	650	5,675
1984	16,600	2,025	12.2	4,600	625	5,825
Huron						
1978	13,900	1,550	11.2	1,675	2,800	4,350
1979	13,950	1,325	9.5	1,850	2,475	4,500
1980	14,200	2,325	16.4	2,000	2,200	4,625
1981	14,000	2,275	16.2	2,025	1,800	4,750
1982	13,750	2,400	17.5	1,900	1,625	4,675
1983	14,200	2,450	17.3	1,900	1,775	4,600
1984	14,425	1,900	13.4	2,000	2,150	4,625
Ingham - see Clinton, Eaton, Ingham, Ionia						
Ionia - See Clinton, Eaton, Ingham, Ionia						
Isoco - see Alcona, Iosco						
Iron						
1978	6,025	575	9.5	975	675	1,800
1979	6,075	575	9.5	1,050	625	1,750
1980	6,075	675	11.1	1,175	575	1,675
1981	6,600	1,050	15.9	1,150	650	1,650
1982	6,450	1,000	15.5	1,050	675	1,625
1983	6,925	875	12.6	1,125	850	1,600
1984	7,050	925	13.1	1,125	900	1,600

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate[c]	Government[d]	Manufacturing	Others[e]
Isabella						
1978	25,700	1,475	5.7	6,475	1,275	7,450
1979	25,975	1,450	5.6	6,650	1,250	7,525
1980	26,700	2,175	8.1	6,650	1,125	7,725
1981	28,350	2,125	7.5	6,950	1,000	8,350
1982	29,125	2,450	8.4	6,825	1,025	8,550
1983	30,850	2,850	9.2	6,400	1,050	9,150
1984	32,625	2,750	8.4	6,450	1,200	9,850
Jackson						
1978	65,700	3,800	5.8	8,400	16,400	29,000
1979	68,400	5,000	7.3	8,700	16,700	29,500
1980	67,300	7,700	11.4	9,000	14,500	28,900
1981	66,900	7,700	11.5	8,400	14,200	28,200
1982	66,900	10,800	16.1	8,000	12,000	27,000
1983	65,500	10,300	15.7	8,100	11,300	26,700
1984	64,800	8,000	12.3	8,500	11,900	26,900
Kalamazoo, Van Buren						
1978	128,300	7,500	5.8	19,400	34,600	52,900
1979	134,400	7,800	5.8	20,200	36,000	55,000
1980	135,500	11,300	8.3	20,500	32,900	56,400
1981	138,400	12,000	8.7	19,900	33,000	56,700
1982	137,400	15,100	11.0	19,400	31,200	54,500
1983	139,500	15,200	10.9	19,100	30,700	55,100
1984	141,000	12,700	9.0	19,100	32,000	56,500
Kalkaska - see Grand Traverse, Kalkaska, Leelanau						
Kent, Ottawa						
1978	294,400	14,700	5.0	30,100	90,500	138,800
1979	309,700	16,900	5.5	31,300	96,000	143,800
1980	311,300	25,900	8.3	32,600	89,000	144,500
1981	321,400	29,100	9.1	30,600	90,100	147,200
1982	325,300	38,600	11.9	29,600	85,000	146,700
1983	334,800	38,200	11.4	28,700	86,000	149,100
1984	337,700	31,400	9.3	28,600	92,000	150,900
Keweenaw - see Houghton, Keweenaw						
Lake						
1978	2,500	200	8.0	400	75	450
1979	2,750	350	12.7	500	50	475
1980	2,950	425	14.4	525	50	475
1981	3,075	450	14.6	500	50	525
1982	3,200	475	14.8	550	50	500
1983	3,050	475	15.6	500	25	500
1984	3,050	400	13.1	475	25	525
Lapeer - see Lapeer, Livingston, Macomb, Oakland, St. Clair, Wayne						
Leelanau - see Grand Traverse, Kalkaska, Leelanau						

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment Number[a]	Unemployment Rate[c]	Wage and salary workers[b] Government[d]	Wage and salary workers[b] Manufacturing	Wage and salary workers[b] Others[e]
Lenawee						
1978	37,575	2,450	6.5	4,325	12,450	11,650
1979	39,150	3,175	8.1	4,625	12,450	12,000
1980	38,400	5,550	14.5	4,900	10,300	11,700
1981	38,425	5,350	13.9	4,800	10,325	11,425
1982	39,325	7,050	17.9	4,650	9,475	11,200
1983	39,275	6,150	15.7	4,575	9,900	11,325
1984	38,950	4,675	12.0	4,650	10,525	11,325
Livingston, Lapeer, Macomb, Oakland, St. Clair, Wayne[f]						
1978	2,011.4	132.8	6.6	255.6	608.9	935.2
1979	2,054.9	163.8	8.0	255.7	580.5	955.8
1980	2,016.0	263.2	13.1	250.9	491.4	934.2
1981	2,005.7	261.7	13.0	239.8	470.5	927.3
1982	1,980.3	316.5	16.0	299.7	419.5	905.0
1983	1,979.1	289.5	14.6	217.7	416.0	905.6
1984	1,977.2	215.1	10.9	215.7	444.1	937.8
Luce						
1978	3,275	725	22.1	1,250	175	650
1979	3,125	350	11.2	1,325	225	700
1980	3,050	400	13.1	1,350	125	700
1981	3,000	575	19.2	1,150	100	700
1982	2,825	500	17.7	1,050	75	725
1983	2,775	475	17.1	1,025	100	625
1984	2,775	400	14.4	1,025	100	675
Mackinac						
1978	6,450	750	11.6	900	125	2,000
1979	6,725	950	14.1	900	175	1,975
1980	6,900	1,075	15.6	975	175	1,950
1981	7,425	1,450	19.5	900	175	2,100
1982	7,850	1,700	21.7	900	150	2,025
1983	8,375	1,975	23.6	925	125	2,175
1984	8,475	2,050	24.3	875	125	2,250
Macomb - see Livingston, Lapeer, Macomb, Oakland, St. Clair, Wayne						
Manistee						
1978	9,900	1,125	11.4	1,225	2,900	2,700
1979	9,900	950	9.6	1,400	2,825	2,775
1980	9,900	1,275	12.9	1,525	2,525	2,725
1981	9,925	1,575	15.9	1,400	2,300	2,700
1982	9,475	1,800	19.0	1,325	1,750	2,700
1983	9,675	1,675	17.3	1,450	1,775	2,775
1984	9,725	1,400	14.4	1,550	1,875	2,800

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[e]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate[c]	Government[a]	Manufacturing	Others[e]
Marquette						
1978	34,300	2,525	7.4	8,000	950	19,750
1979	30,750	2,800	9.1	7,900	975	16,675
1980	30,700	4,050	13.2	8,100	875	15,750
1981	30,325	3,675	12.1	7,725	850	15,575
1982	31,025	6,975	22.5	7,325	775	13,700
1983	30,000	5,050	16.8	7,575	700	13,800
1984	29,575	3,350	11.3	7,525	775	14,775
Mason						
1978	12,200	950	7.8	1,475	2,650	3,925
1979	12,725	1,375	10.8	1,575	2,675	4,000
1980	12,800	1,650	12.9	1,700	2,425	4,025
1981	12,525	1,725	13.8	1,575	2,350	3,825
1982	12,675	2,350	18.5	1,575	1,875	3,625
1983	12,600	2,300	18.3	1,600	1,925	3,625
1984	12,300	1,700	13.8	1,575	2,100	3,675
Mecosta						
1978	14,125	950	6.7	4,200	1,700	3,225
1979	14,025	1,000	7.1	4,450	1,650	3,150
1980	14,875	1,350	9.1	4,875	1,600	3,250
1981	14,700	1,425	9.7	4,575	1,500	3,200
1982	14,750	1,675	11.4	4,425	1,275	3,025
1983	15,475	1,900	12.3	4,450	1,475	3,275
1984	15,650	1,775	11.3	4,550	1,500	3,300
Menominee						
1978	10,725	775	7.2	1,475	2,975	2,850
1979	11,175	800	7.2	1,625	2,850	3,050
1980	10,900	975	8.9	1,775	2,625	2,900
1981	11,200	1,000	8.9	1,675	2,850	2,850
1982	11,250	1,725	15.3	1,625	2,525	2,700
1983	11,550	1,925	16.7	1,625	2,325	2,800
1984	11,725	1,600	13.6	1,650	2,500	2,900
Midland, Gladwin						
1978	37,000	2,950	8.0	3,875	13,400	15,550
1979	37,275	2,850	7.6	4,175	13,100	15,825
1980	37,450	4,125	11.0	4,400	12,675	15,125
1981	37,950	4,150	10.9	4,100	12,325	15,775
1982	38,250	5,150	13.5	3,725	11,650	15,975
1983	38,175	5,550	14.5	3,825	10,975	15,325
1984	38,850	6,175	15.9	4,025	11,175	14,850

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[c]	Rate[c]	Government[d]	Manufacturing	Others[e]
Missaukee, Wexford						
1978	13,750	1,725	12.5	1,825	3,425	4,700
1979	14,275	1,525	10.7	1,950	3,550	4,750
1980	14,550	2,250	15.5	2,150	2,900	4,925
1981	14,850	2,225	15.0	2,000	2,850	5,125
1982	15,800	2,775	17.6	1,975	2,700	5,325
1983	15,250	2,575	16.9	1,900	2,750	5,025
1984	15,550	2,300	14.8	1,925	3,075	5,025
Monroe[g]						
1978	51,125	3,175	6.2			
1979	63,200	6,050	9.6			
1980	62,425	7,175	11.5			
1981	62,775	7,025	11.2			
1982	63,775	9,300	14.6			
1983	65,750	9,925	15.1			
1984	66,025	8,075	12.2			
Montcalm						
1978	18,975	2,650	14.0	2,250	5,025	5,550
1979	19,325	1,875	9.7	2,500	5,550	5,675
1980	20,325	2,875	14.1	2,600	5,375	5,800
1981	20,850	3,100	14.9	2,350	5,700	5,750
1982	21,325	4,050	19.0	2,300	4,900	5,475
1983	22,700	3,750	16.5	2,375	5,950	5,500
1984	23,475	3,975	16.9	2,400	6,675	5,575
Montmorency						
1978	3,075	275	8.9	400	625	700
1979	3,200	450	14.1	350	675	675
1980	2,800	675	24.1	400	325	700
1981	2,525	575	22.8	350	275	675
1982	2,500	550	22.0	325	200	650
1983	2,800	700	25.0	400	250	725
1984	2,525	575	22.8	400	200	700
Muskegon, Oceana						
1978	74,100	6,300	8.5	9,900	22,000	28,200
1979	77,000	6,900	9.0	10,500	22,500	29,100
1980	78,400	10,400	13.3	10,900	20,300	29,100
1981	77,200	10,600	13.7	10,200	19,900	28,300
1982	77,600	14,000	18.0	9,700	18,600	28,300
1983	76,600	13,000	17.0	9,500	17,100	27,400
1984	76,900	9,600	12.5	9,800	19,400	28,000

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate[c]	Government[d]	Manufacturing	Others[e]
Newaygo						
1978	12,825	1,325	10.3	1,625	1,950	2,675
1979	12,625	1,350	10.7	1,725	1,800	2,725
1980	13,475	2,050	15.2	1,850	1,700	2,875
1981	14,075	2,350	16.7	1,650	1,725	3,000
1982	14,825	2,550	17.2	1,525	1,750	3,125
1983	15,275	2,600	17.0	1,675	1,825	3,175
1984	15,775	2,350	14.9	1,700	1,850	3,175
Oakland - see Livingston, Lapeer, Macomb, Oakland, St. Clair, Wayne						
Oceana - see Muskegon, Oceana						
Ogemaw						
1978	7,575	875	11.6	800	950	1,975
1979	7,775	800	10.3	725	975	2,150
1980	7,450	1,050	14.1	775	725	2,100
1981	7,475	1,000	13.4	750	750	2,075
1982	8,225	1,300	15.8	675	600	2,000
1983	8,700	1,450	16.7	900	675	2,275
1984	8,350	1,225	14.7	800	625	2,350
Ontonagon						
1978	3,200	550	17.2	825	425	2,050
1979	3,175	425	13.4	900	475	1,975
1980	3,400	425	12.5	950	550	2,050
1981	3,650	400	11.0	900	800	2,300
1982	3,875	925	23.9	875	650	2,075
1983	3,250	1,025	31.5	875	425	1,175
1984	2,825	625	22.1	875	425	1,100
Osceola						
1978	7,150	575	8.0	1,200	1,950	1,125
1979	7,375	700	9.5	1,425	1,850	1,175
1980	8,250	1,075	13.0	1,625	2,000	1,250
1981	8,625	1,000	11.6	1,350	1,950	1,425
1982	8,475	1,375	16.2	1,350	1,950	1,425
1983	8,600	1,400	16.3	1,300	1,850	1,450
1984	8,375	1,025	12.2	1,300	1,925	1,450
Oscoda						
1978	2,350	375	16.0	325	275	400
1979	2,350	350	14.9	400	225	450
1980	2,325	425	18.3	450	150	400
1981	2,350	475	20.2	425	100	450
1982	2,325	475	20.4	375	75	550
1983	2,500	550	22.0	400	100	475
1984	2,375	425	17.9	400	100	475

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate[c]	Govern-ment[d]	Manu-facturing	Others[e]
Otsego						
1978	8,200	600	7.3	1,050	1,020	3,450
1979	9,250	625	6.8	1,200	1,175	3,750
1980	9,225	800	8.7	1,250	950	3,850
1981	9,575	925	9.7	1,100	1,075	3,850
1982	8,775	1,175	13.4	1,075	850	3,200
1983	8,700	1,075	12.4	925	900	3,325
1984	8,825	975	11.0	900	925	3,450
Ottawa - see Kent, Ottawa						
Presque Isle						
1978	4,500	500	11.1	850	175	2,150
1979	4,475	650	14.5	1,000	125	1,975
1980	4,725	900	19.0	1,050	175	1,975
1981	5,025	975	19.4	950	150	2,150
1982	4,975	1,225	24.6	875	200	1,900
1983	4,500	1,100	24.4	875	175	1,575
1984	4,650	1,000	21.5	875	200	1,750
Roscommon						
1978	5,475	650	11.9	1,150	475	1,775
1979	5,700	700	12.3	1,325	450	1,850
1980	5,925	875	14.8	1,400	375	1,850
1981	6,100	925	15.2	1,300	350	1,950
1982	6,225	1,125	18.1	1,275	225	1,975
1983	6,375	1,150	18.0	1,325	200	1,950
1985	6,300	1,025	16.3	1,275	225	2,025
Saginaw						
1978	98,500	4,900	5.0	11,100	36,600	42,400
1979	101,600	6,600	6.5	11,600	36,200	42,700
1980	102,600	14,600	14.2	11,900	28,600	44,000
1981	101,000	12,200	12.1	11,300	29,300	43,200
1982	99,200	16,900	17.0	11,200	24,200	41,500
1983	98,300	13,800	14.0	11,000	24,700	41,600
1984	101,200	11,500	11.4	12,100	26,800	43,200
St. Clair - see Livingston, Lapeer, Macomb, Oakland, St. Clair, Wayne						
St. Joseph						
1978	24,100	1,725	7.2	2,925	9,875	6,450
1979	25,200	2,600	10.3	3,375	9,300	6,575
1980	25,700	2,950	11.5	3,525	9,150	6,950
1981	26,000	2,550	9.8	3,250	9,625	6,825
1982	25,550	3,300	12.9	3,100	9,225	6,475
1983	25,425	2,850	11.2	3,200	8,925	6,350
1984	27,150	2,850	10.5	3,200	9,425	6,725

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate[c]	Government[d]	Manufacturing	Others[e]
Sanilac						
1978	15,500	1,350	8.7	1,850	3,625	3,225
1979	15,675	1,925	12.3	2,025	3,325	3,275
1980	16,125	2,925	18.1	2,200	2,775	3,400
1981	16,400	3,000	18.3	1,975	2,875	3,400
1982	16,300	3,325	20.4	1,950	2,650	3,450
1983	16,600	3,025	18.2	1,950	2,800	3,375
1984	16,750	2,700	16.1	2,025	3,100	3,325
Schoolcraft						
1978	3,725	475	12.8	675	350	1,350
1979	3,825	550	14.4	775	350	1,275
1980	3,800	550	14.5	775	350	1,275
1981	3,825	675	17.6	725	325	1,250
1982	4,025	850	21.1	725	350	1,200
1983	4,100	850	20.7	750	350	1,175
1984	4,225	925	21.9	775	375	1,175
Shiawassee - see Genesee, Shiawassee						
Tuscola						
1978	24,650	2,000	8.1	3,525	2,950	5,400
1979	25,300	2,225	8.8	3,850	3,000	5,400
1980	25,500	4,250	16.7	4,150	2,175	5,325
1981	24,575	3,650	14.9	3,450	1,850	5,075
1982	23,625	3,975	16.8	3,550	1,925	4,650
1983	23,450	3,950	16.8	3,550	1,925	4,650
1984	23,600	3,275	13.9	3,600	2,050	4,850
Van Buren - see Kalamazoo, Van Buren						
Washtenaw						
1978	135,700	7,100	5.2	41,700	44,000	49,000
1979	144,500	7,900	5.5	43,300	46,800	51,700
1980	144,500	11,700	8.1	45,500	40,800	53,200
1981	142,500	11,100	7.8	44,800	36,100	55,200
1982	140,900	14,000	9.9	44,100	31,900	54,500
1983	146,800	13,900	9.5	45,200	32,100	56,500
1984	150,200	10,500	7.0	46,000	35,300	58,100
Wayne - see Livingston, Lapeer, Macomb, Oakland, St. Clair, Wayne						
Wexford - see Missaukee, Wexford						
Upper Peninsula						
1978	138,250	14,550	10.5	28,800	15,400	56,300
1979	136,525	14,275	10.5	29,900	15,000	53,500
1980	137,675	16,800	12.2	31,300	14,200	52,900
1981	142,425	18,975	13.3	29,500	14,400	59,200
1982	143,350	27,025	18.9	28,400	12,700	50,300
1983	143,400	25,100	17.5	29,000	12,500	49,100
1984	143,800	21,400	14.9	29,200	12,600	51,500

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1978-1984 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate[c]	Government[d]	Manufacturing	Other[e]
Michigan[h]						
1978	4,196.0	289.0	6.9	611.4	1,179.6	1,818.4
1979	4,314.0	335.0	7.8	621.0	1,160.1	1,855.9
1980	4,293.0	534.0	12.4	627.8	998.9	1,816.1
1981	4,306.0	529.0	12.3	598.4	979.0	1,786.9
1982	4,277.0	661.0	15.5	577.8	876.9	1,738.6
1983	4,287.0	608.0	14.2	569.8	880.5	1,772.8
1984	4,349.0	488.0	11.2	566.5	945.8	1,831.0

SOURCE: Michigan Employment Security Commission, special release.

a. Labor force includes persons involved in labor disputes. Employment and unemployment figures are on the basis of place of residence; wage and salary figures by place of work.

b. By place of work as opposed to place of residence.

c. Unemployment as a percentage of civilian labor force. Civilian labor force data are developed on the basis of questions asked at a sample of households, whereas the number of nonfarm wage and salary jobs is estimated by querying selected employers. The difference between the two stems largely from nonfarm self-employment (lawyers, dentists, physicians, and other professionals in private practice; domestic workers; "mom and pop" grocery stores, restaurants, and motels; and so forth), agricultural employment (both owners and their employees), workers involved in labor disputes who otherwise would be employed, multiple jobholding on the part of some employed persons, and sampling differences. Also, a worker might be employed in a factory or office in one state, and counted there in the employer survey, but live in another state, and be counted there in the household survey.

d. Federal, state and local. Includes public school employees and faculty and others employed full and part time at publicly owned universities.

e. Construction, transportation, communication, public utilities, wholesale trade, retail trade, finance, insurance, real estate, services, and mining.

f. Totals in thousands.

g. Monroe is part of the Toledo, Ohio, labor market area. Separate data for place of work are not compiled.

h. Data for state of Michigan is based on 1984 benchmark. Data for all other labor market areas is based on 1983 benchmark and will be revised in future presentations.

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TABLE V-15. CIVILIAN NONFARM WAGE AND SALARY JOBS IN MICHIGAN, DATA BASED ON AN EMPLOYER SURVEY, BY INDUSTRY: 1972-1984

(Averages of 12 monthly estimates, in thousands of jobs)

Industry	1972	1973	1974	1975
Manufacturing industries	1,097.4	1,178.8	1,114.0	983.7
Durable goods industries	879.5	953.1	897.2	778.2
Lumber and wood products	15.2	16.1	15.5	12.8
Furniture and fixtures	20.8	22.5	21.9	18.6
Metal industries	234.6	252.5	235.5	199.9
Primary metal products	87.6	95.6	93.9	79.5
Fabricated metal products	147.0	156.9	141.6	120.4
Machinery (nonelectrical)	140.3	155.6	158.1	136.6
Electrical machinery	42.3	47.1	45.4	38.2
Transportation equipment	384.3	416.0	377.6	332.8
Motor vehicles and equipment	369.6	401.0	366.1	321.2
Other	14.7	15.0	11.5	11.6
Other durable goods	42.0	43.3	43.2	39.3
Nondurable goods industries	217.9	225.7	216.8	205.5
Food and kindred products	52.3	51.7	51.8	51.2
Textile mill products and apparel	24.9	27.3	24.7	22.2
Paper and allied products	26.5	26.9	26.3	23.5
Printing, publishing, and allied industries	36.7	36.9	35.5	34.6
Chemicals and petroleum refining and related industries	44.7	45.6	44.4	45.9
Other nondurable goods	32.8	37.3	34.1	27.8
Private nonmanufacturing industries[a]	1,494.7	1,571.1	1,601.1	1,569.8
Contract construction	127.5	131.4	125.8	106.3
Transportation, communication, and public utilities	148.0	153.6	153.2	144.8
Wholesale trade	146.0	150.6	153.5	146.9
Retail trade	478.9	503.3	510.9	509.6
Finance, real estate, and insurance	127.7	130.3	134.2	134.0
Selected services	454.6	489.0	510.1	514.4
Mining	12.0	12.9	13.4	13.8
Government	526.9	534.4	562.6	583.1
Federal	55.3	55.0	56.3	56.1
State	122.5	123.9	127.5	132.6
Local	349.1	355.5	378.8	394.4
TOTAL	3,119.0	3,284.3	3,277.7	3,136.6

TABLE V-15. CIVILIAN NONFARM WAGE AND SALARY JOBS IN MICHIGAN, DATA BASED ON AN EMPLOYER SURVEY, BY INDUSTRY: 1972-1984 (cont.)

(Averages of 12 monthly estimates, in thousands of jobs)

1976	1977	1978	1979	1980	1981	1982	1983	1984
1,061.7	1,128.4	1,179.6	1,160.1	998.9	979.0	876.9	880.5	945.8
845.4	905.9	952.8	935.1	795.0	778.1	684.5	685.8	743.7
14.1	14.4	14.4	14.1	11.6	10.5	9.7	10.8	11.8
19.6	20.0	21.5	23.0	23.0	23.0	21.6	22.2	25.4
223.5	237.3	247.2	238.8	185.3	182.5	152.8	152.4	169.9
86.2	91.6	91.7	88.0	67.3	65.0	51.1	49.5	52.7
137.3	145.7	155.5	150.8	118.0	117.5	101.7	102.9	117.2
138.0	150.6	159.8	167.2	158.4	154.8	132.1	116.9	128.4
39.6	40.9	42.7	41.9	34.9	33.0	30.4	30.6	33.4
370.5	400.1	423.7	405.6	340.2	334.9	302.7	317.5	338.3
357.7	386.5	409.6	392.7	326.3	319.4	286.5	299.7	319.7
12.8	13.6	14.1	12.9	13.9	15.5	16.2	17.8	18.6
40.1	42.6	43.5	44.5	41.6	39.4	35.2	35.4	36.5
216.3	222.5	226.8	225.0	203.9	200.9	192.4	194.7	202.2
51.3	51.9	52.3	52.1	48.8	46.9	46.1	45.4	45.7
25.9	27.3	27.7	25.8	19.2	19.3	17.3	18.8	20.3
24.6	24.4	23.7	23.8	21.6	21.7	20.4	20.4	20.8
33.7	32.3	33.6	34.1	33.2	33.2	32.7	34.0	35.7
48.1	49.7	48.7	47.8	47.5	46.6	44.9	39.8	40.0
32.7	36.9	40.8	41.4	33.6	33.2	31.0	36.3	39.7
1,626.8	1,717.3	1,818.4	1,855.9	1,816.1	1,786.9	1,738.6	1,772.8	1,831.0
110.0	122.8	138.8	139.5	116.8	106.8	89.5	86.5	89.2
145.6	150.8	155.9	160.6	152.2	147.9	143.3	139.4	138.5
148.8	151.8	164.2	170.4	161.5	157.9	150.7	154.6	170.0
531.1	557.1	584.9	590.9	572.1	556.8	542.6	556.9	573.6
136.9	142.2	147.4	154.5	156.5	155.0	151.9	151.4	153.8
541.2	580.5	613.9	626.8	644.5	649.6	650.2	675.0	696.5
13.2	12.1	13.3	13.2	12.5	12.9	10.4	9.0	9.4
594.6	596.8	611.4	621.0	627.8	598.4	577.8	569.8	566.5
55.5	54.7	54.6	56.7	58.2	55.9	55.9	55.9	56.2
135.1	136.9	143.6	147.7	152.3	147.8	142.2	140.5	138.2
404.0	405.2	413.2	416.6	417.3	394.7	379.7	373.4	372.1
3,283.1	3,442.5	3,609.4	3,637.0	3,442.8	3,364.3	3,193.3	3,223.1	3,343.3

SOURCE: Michigan Employment Security Commission, special release.

a. Excludes domestic workers and agricultural employment.

TABLE V-16. CIVILIAN WAGE AND SALARY EMPLOYMENT IN MAJOR MICHIGAN LABOR MARKETS, DATA BASED ON EMPLOYER SURVEY, LABOR MARKET AREA, BY INDUSTRY: 1984

(Averages of 12 monthly estimates, in thousands of jobs)

Industry	Ann Arbor	Battle Creek	Benton Harbor	Detroit	Flint
Manufacturing industries	36.7	14.6	19.7	459.1	65.2
Durable goods industries	32.0	6.6	15.0	382.4	62.3
Lumber and wood products	0	0	0	1.6	0
Furniture and fixtures	0	0	0	1.6	0
Metal industries	2.3	2.5	4.2	84.4	9.9
Primary metal products	0	1.1	2.5	25.8	0
Fabricated metal products	2.3	1.4	1.7	58.6	9.9
Machinery (nonelectrical)	3.0	2.8	3.6	69.8	1.2
Electrical machinery	0	0	4.3	8.1	0
Transportation equipment	18.3	0	1.5	200.7	50.6
Motor vehicles and equipment	(D)	0	(D)	190.7	(D)
Other	(D)	0	(D)	10.0	(D)
Other durable goods	8.4	1.3	1.4	16.2	.6
Nondurable goods industries	4.8	8.0	4.7	76.7	2.9
Food and kindred products	0	6.1	.9	15.6	0
Textile mill products and apparel	0	0	0	12.9	0
Paper and allied products	0	1.0	.7	4.0	0
Printing, publishing, and allied industries	2.4	0	1.4	17.0	.8
Chemicals and petroleum refining and related industries	0	0	0	10.3	0
Other nondurable goods	2.4	.9	1.7	16.9	2.1
Private nonmanufacturing industries[a]	60.5	26.6	29.6	980.9	80.4
Contract construction	3.6	1.5	1.2	44.2	3.8
Transportation, communication, and public utilities	3.5	1.9	2.4	74.6	4.7
Wholesale trade	3.8	1.2	2.5	97.7	10.9
Retail trade	17.8	7.9	8.9	290.5	27.9
Finance, real estate, and insurance	4.1	3.5	2.0	89.6	5.7
Selected services	27.7	10.6	12.6	383.6	27.4
Mining	0	0	0	.7	(D)
Government	45.6	11.4	8.0	225.3	27.4
Federal	2.4	4.4	.5	31.3	1.3
State	32.3	.4	.5	27.9	1.9
Local	10.9	6.6	7.1	166.1	19.2
TOTAL	142.8	52.7	57.5	1,664.7	168.1

TABLE V-16. CIVILIAN WAGE AND SALARY EMPLOYMENT IN MAJOR MICHIGAN LABOR MARKETS, DATA BASED ON EMPLOYER SURVEY, LABOR MARKET AREA, BY INDUSTRY: 1984

(Averages of 12 monthly estimates, in thousands of jobs)

Grand Rapids	Jackson	Kalamazoo	Lansing	Muskegon	Midland-Bay City-Saginaw	Upper Peninsula
94.2	12.0	28.3	35.1	18.7	45.6	13.7
68.3	10.0	11.8	31.1	15.9	30.1	8.8
1.7	0	0	0	0	0	3.2
17.7	0	0	0	0	0	0
18.3	3.5	5.1	3.2	3.4	1.2	1.2
3.5	.7	0	.8	2.3	0	.8
14.8	2.8	5.1	2.4	1.1	1.2	.4
13.7	2.5	2.1	2.5	6.7	3.4	1.2
4.0	0	0	0	0	1.2	0
5.0	2.5	1.7	24.2	0	14.9	1.1
(D)	(D)	(D)	(D)	0	0	(D)
(D)	(D)	(D)	(D)	0	0	(D)
7.9	1.5	2.9	1.2	5.8	9.4	2.1
25.9	1.9	16.5	4.0	2.8	15.6	4.9
6.8	0	1.0	0	0	1.9	.8
3.6	0	0	0	0	0	0
1.8	0	4.9	0	0	0	3.0
4.1	0	1.2	1.2	0	0	.8
5.5	0	7.4	0	.8	0	0
4.6	1.9	2.0	2.8	2.0	13.1	.3
156.7	26.9	50.9	84.8	26.7	78.2	51.8
9.7	1.1	2.8	4.0	1.6	6.0	4.4
10.8	4.7	2.9	5.3	2.8	7.1	4.9
17.7	1.8	3.7	7.3	1.9	5.2	2.7
50.3	8.1	16.9	27.5	8.9	26.2	17.6
11.2	1.6	3.7	9.6	1.4	5.5	3.2
56.7	9.2	20.8	30.7	10.0	28.1	16.0
(D)	0	0	0	0	0	3.0
28.6	8.2	15.0	60.4	8.0	19.4	29.4
2.0	.5	.9	2.8	.4	1.7	3.2
2.5	2.1	6.4	37.4	1.1	2.0	8.5
24.1	5.6	7.7	20.2	6.5	15.7	17.6
279.5	47.0	94.3	180.3	53.4	143.2	94.8

SOURCE: Michigan Employment Security Commission, special release.
NOTE: Labor Market Areas are the same as Standard Metropolitan Statistical Areas, except for Benton Harbor (Berrien County), and Upper Peninsula (15 counties) which are not SMSAs.
a. Excludes domestic workers and agricultural employment.
(D): Withheld to avoid disclosing data for individual companies.

TABLE V-19. ESTIMATES OF WORKERS' COMPENSATION PAYMENTS IN MICHIGAN, BY TYPE OF INSURANCE: 1974-1984

(In thousands of dollars)

Year	Direct losses paid by private insurance carriers	Self-insurance payments
1974	248,052[a]	120,400
1975	267,160[a]	128,800
1976	328,457[a]	151,000
1977	271,349	168,000
1978	295,093	205,850
1979	355,681	152,055
1980	378,091	175,047
1981	404,255	199,340
1982	389,858	196,732
1983	349,704	193,975
1984	249,474	204,509

SOURCE: Michigan Department of Labor, Workers' Compensation Division, special release; Fund Administration Division, for 1979-1981, special release.

a. Direct losses incurred.

TABLE V-20. NUMBER OF MINERS, MINERS' WIDOWS, AND MINERS' DEPENDENTS RECEIVING BLACK LUNG BENEFITS, AND MONTHLY AMOUNT, MICHIGAN AND THE UNITED STATES: DECEMBER 1978-1984

Year	Number				Monthly amount ($1,000)	
	Miners	Widows	Dependents	Total	Miners	Widows
			Michigan			
1978	1,399	2,279	1,456	5,134	470	553
1979	1,295	2,276	1,292	4,863	473	595
1980	1,210	2,304	1,195	4,709	483	663
1981	1,105	2,329	1,076	4,510	462	702
1982	975	2,304	931	4,210	425	719
1983	888	2,258	841	3,987	386	706
1984	766	2,026	714	3,706	346	723
			United States			
1978	138,648	145,829	155,493	439,970	46,800	35,500
1979	129,558	146,527	142,863	418,948	47,800	38,700
1980	120,235	146,503	132,639	399,477	48,800	42,600
1981	111,249	146,173	119,083	376,505	47,300	44,400
1982	102,234	144,863	107,472	354,569	45,200	45,600
1983	93,694	142,967	96,697	333,358	41,300	45,000
1984	85,658	140,995	87,169	313,822	39,200	46,100

SOURCE: Social Security Administration, Social Security Bulletin, Table Q-37.

TABLE V-17. TRANSACTIONS AFFECTING THE BALANCE IN THE MICHIGAN UNEMPLOYMENT COMPENSATION FUND, FISCAL YEARS: 1968-1984

			Loans from federal account					
				Repayments				
Calendar year	Employer contributions	Interest earned and credited	Borrowed	Reduction of offset	Direct transfer from fund	Balance due end of year	Net benefit payments	Balance in fund, end of period
				(Thousands of dollars)				
1968	117,705	22,838	0	0	41,187	0	113,777	577,784
1969	130,974	25,888	0	0	0	0	111,585	623,061
1970	120,984	28,753	0	0	0	0	288,668	484,129
1971	133,287	21,763	0	0	0	0	330,861	308,319
1972	310,221	115,262	0	0	0	0	254,697	379,106
1973	338,702	21,960	0	0	0	0	183,017	556,751
1974	296,241	29,701	0	0	0	0	494,556	388,137
1975	283,801	10,855	326,000	0	0	326,000	968,405	40,388
1976	470,122	15	245,000	0	0	571,000	575,690	179,835
1977	591,874	0	53,000	0	0	624,000	474,296	350,413
1978	690,761	249	0	0	0	624,000	424,384	617,038
1979	724,110	9,889	0	0	624,000	0	617,949	109,088
1980	617,517	393	842,000	0	0	842,000	1,293,224	275,774
1981	624,164	0	233,000	0	0	1,075,000	1,064,529	68,409
1982	598,996	0	1,181,649	0	70,833	2,185,816	1,702,997	75,224
1983	833,591	0	789,756	40,300	613,000	2,322,272	1,018,060	67,511
1984	1,146,189	0	429,106	102,617	983,000	1,665,761	604,133	55,673

SOURCE: Michigan Employment Security Commission, *Michigan Handbook of Unemployment Insurance Program Statistics, 1937-1984* (Detroit, 1985), p. 1.

TABLE V-18. EMPLOYMENT AND PAYROLLS IN MICHIGAN ESTABLISHMENTS COVERED UNDER THE REGULAR STATE UNEMPLOYMENT INSURANCE PROGRAM, BY COUNTY: FIRST QUARTER: 1982, 1983, AND 1984

	1982		1983		1984	
County	Average employment	Total payrolls	Average employment	Total payrolls	Average employment	Total payrolls
Alcona	700	$ 1,797,099	753	$ 1,705,156	785	2,205,350
Alger	1,053	3,508,081	1,057	4,050,128	1,106	4,497,327
Allegan	13,059	46,770,543	13,232	48,721,133	13,517	56,264,866
Alpena	6,625	24,914,066	6,192	24,037,732	6,681	28,359,882
Antrim	2,306	7,224,391	2,209	5,922,607	2,189	7,042,272
Arenac	1,801	4,429,390	1,891	4,882,799	2,071	5,637,392
Baraga	1,327	3,696,645	1,165	3,361,092	1,121	3,522,869
Barry	5,147	20,811,384	4,788	19,222,541	5,304	23,706,647
Bay	25,663	108,847,725	24,995	106,131,735	25,265	121,895,654
Benzie	1,536	4,222,711	1,579	4,419,193	1,861	5,939,313
Berrien	44,757	187,125,518	43,164	192,324,628	44,680	215,073,170
Branch	7,072	26,128,911	7,054	26,894,836	7,099	27,833,104
Calhoun	38,974	171,919,506	35,401	164,036,323	36,723	179,335,431
Cass	5,634	20,051,099	6,076	22,711,624	6,842	29,195,212
Charlevoix	4,217	13,307,614	4,027	13,034,903	3,807	13,713,809
Cheboygan	3,193	10,364,609	3,099	9,912,089	3,148	10,791,786
Chippewa	3,743	10,627,003	3,466	9,319,708	3,627	10,654,662
Clare	3,014	8,180,539	2,988	8,382,373	3,174	9,532,138
Clinton	5,146	18,221,032	5,340	19,930,175	5,792	23,860,671
Crawford	1,689	4,417,259	1,702	4,179,182	1,820	4,764,664
Delta	8,190	31,778,651	7,719	29,992,328	7,810	33,513,498
Dickinson	6,551	23,365,252	6,785	24,831,301	7,566	32,806,336
Eaton	8,288	28,922,401	8,269	30,401,226	9,316	36,586,086
Emmet	6,102	19,203,846	6,109	20,196,460	6,200	23,672,944
Genesee	128,044	700,751,457	126,952	759,950,862	137,712	966,987,599

TABLE V-18. EMPLOYMENT AND PAYROLLS IN MICHIGAN ESTABLISHMENTS COVERED UNDER THE REGULAR STATE UNEMPLOYMENT INSURANCE PROGRAM, BY COUNTY: FIRST QUARTER: 1982, 1983, AND 1984 (cont.)

County	1982		1983		1984	
	Average employment	Total payrolls	Average employment	Total payrolls	Average employment	Total payrolls
Gladwin	1,938	5,584,400	1,859	5,527,014	2,042	6,538,754
Gogebic	4,051	8,712,611	3,405	7,436,730	3,427	7,753,831
Grand Traverse	18,627	62,375,776	18,990	69,681,976	21,008	80,785,151
Gratiot	9,111	32,084,063	8,927	32,490,136	9,654	37,393,665
Hillsdale	7,751	26,681,061	7,642	27,269,851	8,455	33,375,673
Houghton	5,692	16,651,414	5,753	16,964,437	5,678	17,808,492
Huron	5,659	18,551,399	5,864	20,485,917	6,408	25,620,209
Ingham	95,022	437,696,810	92,809	484,353,840	96,586	578,420,408
Ionia	7,375	24,051,654	6,770	24,253,177	8,241	32,789,440
Iosco	3,096	8,882,821	3,113	9,589,438	3,365	11,388,406
Iron	2,023	5,370,420	2,242	6,016,683	2,354	6,504,081
Isabella	10,255	34,284,672	9,792	32,038,973	9,997	34,375,106
Jackson	38,930	172,439,378	35,916	165,049,114	36,274	178,814,051
Kalamazoo	72,625	322,520,099	72,624	340,061,709	74,730	381,804,393
Kalkaska	1,859	8,180,023	1,918	7,909,478	1,910	8,448,120
Kent	177,089	733,224,095	175,797	768,110,375	188,971	916,897,544
Keweenaw	66	132,861	65	132,964	79	198,101
Lake	443	987,977	435	933,760	511	1,200,268
Lapeer	6,907	22,890,569	7,075	23,689,761	7,671	28,510,822
Leelanau	1,434	3,019,198	1,390	2,931,291	1,077	2,754,430
Lenawee	19,234	76,608,540	17,952	75,837,868	18,690	87,237,752
Livingston	11,963	40,023,010	12,092	42,178,576	13,519	50,312,125
Luce	575	1,247,090	576	1,377,337	571	1,529,262
Mackinac	1,074	2,705,120	1,201	3,197,376	1,109	3,681,807
Macomb	154,654	732,024,688	154,999	775,073,666	172,705	965,180,524

TABLE V-18. EMPLOYMENT AND PAYROLLS IN MICHIGAN ESTABLISHMENTS COVERED UNDER THE REGULAR STATE UNEMPLOYMENT INSURANCE PROGRAM, BY COUNTY: FIRST QUARTER: 1982, 1983, AND 1984 (cont.)

	1982		1983		1984	
County	Average employment	Total payrolls	Average employment	Total payrolls	Average employment	Total payrolls
Manistee	4,076	$ 16,523,998	3,836	$ 15,479,663	3,928	$ 15,539,873
Marquette	15,277	58,831,783	13,034	50,484,175	14,118	54,584,925
Mason	5,025	16,445,120	4,695	15,870,357	4,859	19,481,976
Mecosta	3,867	10,196,701	4,388	12,729,437	3,947	13,028,026
Menominee	5,132	15,467,470	4,871	15,844,559	5,302	18,232,493
Midland	25,193	141,419,908	22,996	135,287,847	24,326	154,112,190
Missaukee	768	2,035,188	689	1,668,354	696	2,001,962
Monroe	20,217	101,301,800	20,183	114,642,640	18,604	103,174,373
Montcalm	10,269	36,705,647	10,971	42,722,140	11,619	51,012,679
Montmorency	629	1,264,759	1,125	2,636,207	859	1,735,592
Muskegon	43,206	185,193,339	39,282	176,054,747	42,486	203,357,191
Newaygo	4,598	15,796,333	4,537	16,131,173	4,959	18,499,593
Oakland	349,873	1,662,422,083	342,810	1,716,206,082	382,977	2,075,262,787
Oceana	1,891	5,036,795	1,918	5,220,521	1,964	5,759,819
Ogemaw	2,299	6,531,796	2,484	7,067,890	2,575	8,111,540
Ontonagon	2,907	12,483,314	1,487	6,032,886	1,422	6,052,697
Osceola	2,998	10,552,683	2,983	11,084,122	3,414	14,223,755
Oscoda	457	889,694	444	872,391	490	1,099,783
Otsego	3,775	11,773,686	3,755	11,985,082	4,142	14,852,397
Ottawa	44,050	164,140,798	44,112	174,470,363	50,569	215,403,245
Presque Isle	1,726	5,650,505	1,413	4,133,674	1,762	6,015,853
Roscommon	1,892	3,847,619	1,853	4,066,605	1,951	4,768,672
Saginaw	62,924	293,431,597	60,776	312,284,403	64,889	385,773,112
St. Clair	25,529	107,806,705	25,637	114,112,979	26,456	122,409,456
St. Joseph	14,062	52,621,934	13,152	52,352,628	13,953	60,392,658

TABLE V-18. EMPLOYMENT AND PAYROLLS IN MICHIGAN ESTABLISHMENTS COVERED UNDER THE REGULAR STATE UNEMPLOYMENT INSURANCE PROGRAM, BY COUNTY: FIRST QUARTER: 1982, 1983, AND 1984 (cont.)

	1982		1983		1984	
County	Average employment	Total payrolls	Average employment	Total payrolls	Average employment	Total payrolls
Sanilac	5,374	17,529,432	5,397	18,655,717	5,984	23,049,527
Schoolcraft	1,261	4,687,074	1,251	4 578,648	1,175	4,318,416
Shiawassee	9,776	33,445,061	9,090	3[illegible],925,431	10,133	39,868,910
Tuscola	6,365	22,105,945	6,199	[illegible],005,482	6,805	25,870,214
Van Buren	9,711	34,473,358	9,330	32,016,300	9,099	33,255,741
Washtenaw	86,001	407,650,175	86,707	438,853,777	93,531	553,643,503
Wayne	720,785	3,752,306,502	691,231	3,776,559,175	713,183	4,293,856,615
Wexford	6,164	20,680,213	6,138	21,970,949	6,979	27,103,304
State-wide	45,951	203,094,521	46,852	211,811,738	54,816	269,905,246
TOTAL	2,535,308	11,732,460,079	2,470,774	12,078,961,725	2,634,221	14,222,473,215

SOURCE: Michigan Employment Security Commission, special release.

VI. INCOME AND COST OF LIVING

The following comments are excerpts from a mimeographed description of the personal income statistics issued by the Bureau of Economic Analysis, an agency within the U.S. Department of Commerce:

> BEA's personal income estimates are unique in that they provide its users with an economic base profile, extending over a span of more than forty years and covering more than three-thousand sub-areas, which can be combined into any multicounty geographic area needed. That is, it covers the Nation county-by-county; it is prepared annually, and it is presented in substantial industrial detail.
>
> Because of its conceptual scope and its richness of component detail, personal income can be used to measure and trace the levels and types of income flows received or earned by individuals residing or working in a specific political subdivision or micro-economy. Thus, it provides a local area data base for economic decision-making and for the implementation of those Federal, State or local government programs requiring an analysis of economic activities in, or the economic well-being of the residents of, a particular area. Specific applications include its use as a measure of the size of the consumer market; as an indirect measure of the industrial market; as a measure of the quality of a market and the economic welfare of an area's residents; as an indicator of an area's economic health; as an analytical framework which can be used in assessing an area's economy and against which alternative developmental programs can be evaluated or as a basis for gauging the capacity of an area to support public service expenditures.
>
> Personal income is the sum of several hundred individually estimated component flows, both monetary and non-monetary, and it encompasses most forms of income flowing to persons including Federal, State and local governments, households, institutions, and foreign governments.
>
> Two of the most important characteristics of the county income estimates are that they are constructed from a wide variety of statistical information not necessarily designed for income estimation; (this information consists mainly of data obtained from business and government records showing disbursements to individuals) and the BEA national and State estimates of personal income are used as statistical "frames of reference". Thus State

totals are allocated to the counties on the basis of the best available data. A detailed procedure of estimation is followed to maximize reliability and to obtain analytically useful information by county on income by type and by industry. This use of extensive detail is the hallmark of a reliable measurement effort because it reflects, with reasonable reliability, the interindustry or intercomponent differentials at both the State and county levels, and it provides the detail needed to audit the sources and methods of estimation. This approach has an added virtue in that it gives us the opportunity to take maximum advantage of the benevolent "law" of offsetting error.

It should also be emphasized that while the BEA estimates of county personal income and employment incorporate a great deal of basic data which may be presumed, from their general characteristics, to be "reliable," it also uses other data of differing quality, scope and relevance. In order to bridge the gaps or deficiencies in the poorer quality statistical source materials available for county income estimation, resort must be made to assumptions and indirect procedures.

Reliance on indirect methods and procedures makes it impossible to specify error in formal probabilistic or statistical terms. The importance of this limitation is increased by two circumstances; (a) the extent of indirect methods varies considerably over the forty-year estimating span, and (b) the industry structures of States and counties are differentially sensitive to such methods.

Personal Income Defined Personal income is the current income of residents of an area from all sources. It is measured after deduction of personal contributions to social security, government retirement, and other social insurance programs but before deduction of income and other personal taxes. It includes income received from business, Federal, State and local governments, households and institutions, and foreign governments. It consists of wages and salaries (in cash and in kind, including tips and bonuses as well as contractual compensation), various types of supplementary earnings termed other labor income (the largest item being employer contributions to private pension, health and welfare funds), the net incomes of owners of unincorporated businesses (farm and nonfarm with the latter including the incomes of independent professionals), net rental income, royalties, dividends, interest, and government and business transfer payments (consisting in general of disbursements to persons for which no services are rendered currently, such as unemployment benefits, social security payments, medicare benefits, retirement pay of governmental programs, and welfare and relief payments).

To measure personal income on a local area basis, criteria for allocating income or counties or SMSA's must be established. In the case of labor and entrepreneurial income, the criteria can be either the place-of-work of the income recipient or his place-of-residence. The difference between the two concepts is the net flow of commuters' earnings.

In BEA's local area income series, personal income is measure on a where-received (i.e., place-of-residence) basis; however, the bulk of the estimates of earnings[1] by broad industrial source are on a where-earned basis.

Earnings on a residence basis equals earnings on a place-of-work basis minus the earnings of persons who work in the given area but reside in another area, plus the earnings of persons who reside in the given area but work in another area.

Both measures of local area earnings are required. In the first construct, earnings, designated as "where-earned," are estimated by industry by place-of-work to provide a basis for the analysis of the industrial structure of a given area. In the second construct, designated as "where-received," earnings (where-earned) are adjusted to reflect place-of-residence which together with the other components of total personal income yields a useful basis for the analysis of consumer markets and purchasing power. When expressed on a per capita basis, the total personal income is an indicator of the economic well-being of the residents of a sub-area.

This adjustment to a place-of-residence is made to the all-industry earnings total for each county. A more precise method would be to convert the place-of-work earnings to a place-of-residence by computing adjustment factor for each major industry group, thus reflecting industrial differential in commuting flows. There is, however, little likelihood that the industrial detail needed to carry out such a procedure will be forthcoming in the near future.

---

[1] Earnings are the sum of wages and salaries, other labor income, and self-employment income.

The distinction between place-of-work and residence cannot be applied to the other components of the income flow -- property income and transfer payment. In the case of property income an alternative criterion, resembling the place-of-work concept, is possible, i.e., the allocation of these incomes to the areas in which the businesses that generated them are located. However, conceptual and statistical difficulties that have not been satisfactorily resolved stand in the way of the application of this criterion. And even if these difficulties did not exist, it would not be advisable to apply the criterion to the property income component of personal income, since the latter cannot be transformed into a satisfactory measure of the contribution of capital to production, mainly because it excludes all components of profits other than dividends.

Readers of the Abstract who require additional detail of personal income for Michigan or its subdivisions, other than that published in this chapter are invited to contact the Bureau of Business Research, School of Business Administration, Wayne State University, which is a repository for these statistics.

Selected detail of transfer payments appears in Table VII-2. The personal income earnings components for industries were used as measures of the economic importance of government (Chapter X), agriculture (Chapter XII), construction (Chapter XIV), manufacturing (Chapter XV), trade (Chapters XX and XXI), finance, insurance, and real estate (Chapter XXI) and services (Chapter XXIII).

The poverty threshold is developed by the Bureau of the Census as a multiple of the income needed to purchase an "economy" diet, one that just meets minimum standards of nutrition and diversity. Government studies have shown that for households with three or more individuals, the multiple is three, that is, one-third of the budget goes for food. In two-person households, food absorbs 27 percent of the minimum adequate budget, and for single individuals the ratio is even smaller.

Consumer price indexes are complied by the Bureau of Labor Statistics. Essentially, these represent the change in the cost of purchasing a fixed market basket of goods and services. CPIs are calculated for a selection of cities in the country, including Detroit. The national index is produced separately on basis of average prices of individual items nationally.

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TABLE VI-1. TOTAL AND PER CAPITA PERSONAL INCOME IN MICHIGAN AND THE UNITED STATES: 1929-1984

	Total income (millions of dollars)			Per capita income (dollars)		
Year	Michigan	United States	Percentage[a]	Michigan	United States	Percentage
1929	3,770	84,894	4.44	786	697	112.8
1930	3,165	76,173	4.16	655	619	105.8
1931	2,590	65,377	3.96	540	527	102.5
1932	1,888	50,050	3.77	395	401	98.5
1933	1,664	46,916	3.55	348	374	93.0
1934	2,173	53,648	4.05	453	425	106.6
1935	2,560	60,239	4.25	529	473	111.8
1936	3,017	68,405	4.41	617	534	115.5
1937	3,382	73,721	4.59	681	572	119.1
1938	2,874	67,918	4.23	568	523	108.6
1939	3,199	72,301	4.42	620	552	112.3
1940	3,586	77,739	4.61	675	589	114.6
1941	4,493	95,103	4.72	822	713	115.3
1942	5,780	121,496	4.76	1,041	902	115.4
1943	7,242	147,772	4.90	1,342	1,097	122.3
1944	7,529	158,959	4.74	1,379	1,186	116.3
1945	7,190	163,359	4.40	1,315	1,225	107.3
1946	7,743	175,411	4.41	1,318	1,247	105.7
1947	8,829	188,539	4.68	1,453	1,312	110.7
1948	9,550	207,582	4.60	1,537	1,421	108.2
1949	9,516	204,918	4.64	1,503	1,378	109.1
1950	10,811	225,684	4.79	1,687	1,492	113.1
1951	12,066	252,485	4.78	1,857	1,647	112.8
1952	12,908	268,983	4.80	1,941	1,728	112.3
1953	14,663	284,866	5.15	2,149	1,800	119.4
1954	14,257	286,953	4.97	2,018	1,781	113.3
1955	15,825	307,601	5.14	2,172	1,872	116.0
1956	16,472	329,933	4.99	2,206	1,972	111.9
1957	16,917	348,309	4.86	2,235	2,044	109.3
1958	16,602	358,913	4.65	2,165	2,061	105.0
1959	17,625	382,548	4.61	2,269	2,160	105.0
1960	18,328	398,843	4.60	2,339	2,216	105.6
1961	18,281	414,285	4.41	2,316	2,264	102.3
1962	19,560	440,023	4.45	2,466	2,369	104.1
1963	20,887	462,406	4.52	2,592	2,454	105.6
1964	22,904	495,188	4.63	2,798	2,592	107.9
1965	25,511	536,152	4.76	3,053	2,772	110.1
1966	27,844	582,630	4.78	3,271	2,980	109.8
1967	28,967	623,757	4.64	3,357	3,161	106.2
1968	32,010	683,561	4.68	3,681	3,430	107.3

TABLE VI-1. TOTAL AND PER CAPITA PERSONAL INCOME IN MICHIGAN AND THE UNITED STATES: 1929-1984 (cont.)

Year	Total income (millions of dollars)			Per capita income (dollars)		
	Michigan	United States	Percentage[a]	Michigan	United States	Percentage
1969	34,862	747,536	4.66	3,970	3,714	106.9
1970	35,975	803,922	4.47	4,044	3,945	102.5
1971	39,068	861,904	4.53	4,355	4,167	104.5
1972	43,282	944,852	4.58	4,796	4,515	106.2
1973	48,383	1,058,902	4.57	5,333	5,010	106.4
1974	51,739	1,162,203	4.45	5,680	5,448	104.3
1975	54,540	1,258,643	4.33	5,988	5,842	102.5
1976	61,324	1,385,201	4.43	6,726	6,367	105.6
1977	69,291	1,534,708	4.51	7,567	6,984	108.3
1978	77,528	1,726,185	4.49	8,425	7,772	108.4
1979	85,448	1,942,655	4.40	9,239	8,651	106.8
1980	90,681	2,156,715	4.20	9,798	9,494	103.2
1981	96,251	2,420,098	3.98	10,451	10,544	99.1
1982	97,929	2,575,759	3.80	10,743	11,113	96.7
1983	104,017	2,735,829	3.80	11,493	11,690	98.3
1984	114,408	3,020,259	3.79	12,607	12,789	98.6

SOURCE: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, August 1985.

a. Michigan as a percentage of U.S.

TABLE VI-2. TOTAL AND PER CAPITA DISPOSABLE PERSONAL INCOME IN MICHIGAN AND THE UNITED STATES: 1958-1984

	Total income (Millions of dollars)			Per capita income (dollars)		
Year	Michigan	United States	Percentage	Michigan	United States	Percenage
1958	14,747	315,401	4.7	1,923	1,820	105.7
1959	15,589	335,007	4.7	2,007	1,900	105.6
1960	16,081	348,724	4.6	2,053	1,938	105.9
1961	16,139	362,467	4.5	2,045	1,981	103.2
1962	17,096	383,446	4.5	2,155	2,065	104.4
1963	18,182	402,344	4.5	2,256	2,135	105.7
1964	20,202	436,805	4.6	2,468	2,286	108.0
1965	22,406	471,557	4.8	2,681	2,438	110.0
1966	24,280	508,621	4.8	2,852	2,602	109.6
1967	25,138	542,238	4.6	2,913	2,747	106.0
1968	27,245	587,398	4.6	3,133	2,947	106.3
1969	29,078	632,946	4.6	3,311	3,144	105.3
1970	30,451	689,190	4.4	3,423	3,382	101.2
1971	33,369	746,142	4.5	3,719	3,608	103.1
1972	36,253	804,849	4.5	4,017	3,846	104.4
1973	40,881	909,247	4.5	4,506	4,302	104.7
1974	43,937	993,076	4.4	4,823	4,655	103.6
1975	46,937	1,090,778	4.3	5,153	5,063	101.8
1976	51,956	1,189,607	4.4	5,699	5,468	104.2
1977	58,156	1,309,219	4.4	6,351	5,957	106.6
1978	64,649	1,468,375	4.40	7,026	6,611	106.3
1979	71,247	1,642,518	4.34	7,703	7,314	105.3
1980	76,581	1,820,880	4.21	8,275	8,016	103.2
1981	80,760	2,033,353	3.97	8,769	8,859	99.0
1982	82,897	2,172,768	3.82	9,094	9,374	97.0
1983	88,172	2,332,700	3.78	9,742	9,968	97.7
1984	97,715	2,586,213	3.78	10,768	10,951	97.3

SOURCE: Bureau of Economic Analysis, Regional Economics Information System, August 1985.

TABLE VI-3. FUNCTIONAL COMPONENTS OF INCOME IN MICHIGAN AND THE UNITED STATES: 1978-1983

(Dollar figures in thousands)

	1978	1979	1980	1981	1982	1983
Labor and proprietors' earnings, by place of work[a,b,c]						
Michigan	61,831,562	67,414,374	67,714,026	70,419,004	69,194,212	73,806,106
United States	1,320,974,000	1,476,192,000	1,593,645,000	1,748,863,000	1,826,657,000	1,943,947,000
Percentage[c]	4.7	4.6	4.2	4.0	3.8	3.8
Social insurance contributions						
Michigan	2,933,772	3,327,494	3,359,360	3,830,075	3,820,412	4,120,624
United States	69,459,000	80,769,000	88,307,000	104,083,000	110,887,000	119,144,000
Percentage[c]	4.2	4.1	3.8	3.7	3.4	3.5
Residence adjustment						
Michigan	375,478	430,555	447,885	472,423	484,150	508,316
United States[d]	-441,000	-426,000	-488,000	-487,000	-559,000	-554,000
Percentage[c]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Net labor and proprietors' earnings, by place of residence						
Michigan	59,273,268	64,517,435	64,802,551	67,061,352	65,857,950	70,193,798
United States	1,251,074,000	1,394,997,000	1,504,850,000	1,644,293,000	1,715,211,000	1,824,249,000
Percentage[c]	4.7	4.6	4.3	4.1	3.8	3.8
Dividends, interest, and rent[e]						
Michigan	9,387,152	10,817,549	12,401,457	15,030,200	16,173,532	16,922,987
United States	251,267,000	297,393,000	354,290,000	438,496,000	484,568,000	504,905,000
Percentage[c]	3.7	3.6	3.5	3.4	3.3	3.4

TABLE VI-3. FUNCTIONAL COMPONENTS OF INCOME IN MICHIGAN AND THE UNITED STATES: 1978-1983 (cont.)

(Dollar figures in thousands)

	1978	1979	1980	1981	1982	1983
			Transfer payments[f]			
Michigan	8,871,570	10,117,640	13,498,502	14,203,898	15,975,987	16,862,820
United States	223,844,000	250,260,000	297,570,000	337,250,000	376,052,000	404,968,000
Percentage[c]	4.0	4.0	4.5	4.2	4.2	4.2
			Personal income, by place of residence			
Michigan	77,531,990	85,452,624	90,702,510	96,295,450	98,007,469	103,979,605
United States	1,726,185,000	1,942,650,000	2,156,710,000	2,420,039,000	2,575,831,000	2,734,122,000
Percentage[c]	4.5	4.4	4.2	4.0	3.8	3.8

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

a. See Table VI-4 for details.
b. Consists of wage and salary disbursements, other labor income, and proprietors' income.
c. Michigan as a percentage of United States.
d. Adjust for border workers: Income of U.S. residents working across U.S. borders less income of foreign residents working in the U.S.
e. See Table VI-5 for detail.
f. See Table VII-2. for detail.
n.a.: not applicable.

TABLE VI-4. ANALYSIS OF THE LABOR AND PROPRIETORS' EARNINGS COMPONENT OF PERSONAL INCOME, BY INDUSTRIAL SECTOR, IN MICHIGAN AND THE UNITED STATES: 1978-1983[a]

Sector	Earnings, 1983		Percentage change	
	Millions of dollars	Percentage	1978 to 1983	1982 to 1983
	Michigan			
Manufacturing	28,466	38.57	6	8
Nondurable goods	5,165	7.00	26	7
Durable goods	23,301	31.57	2	8
Services	13,174	17.85	54	10
Retail trade	6,502	8.81	17	6
Transportation and public utilities	4,428	6.00	29	6
Wholesale trade	3,945	5.35	26	6
Construction	2,468	3.34	-20	.32
Finance, insurance and real estate	3,088	4.18	29	10
Farm	685	0.93	8	-.15
Mining	271	0.37	-7	-14
Agricultural services, forestry, fisheries, and other[b]	165	0.22	25	9
State and local government	8,900	12.06	37	3
Federal, civilian	1,423	1.93	38	6
Federal, military	292	0.40	61	11
TOTAL	73,806	100.00	19	7
	United States			
Manufacturing	462,289	23.78	34	4
Nondurable goods	173,853	8.94	41	6
Durable goods	288,436	14.84	29	3
Services	390,205	20.07	79	11
Retail trade	187,000	9.62	41	8
Transportation and public utilities	151,397	7.79	50	5
Wholesale trade	130,023	6.69	49	4
Construction	102,498	5.27	26	6
Finance, insurance and real estate	124,267	6.39	63	16
Farm	25,740	1.32	-23	-20
Mining	32,302	1.66	70	-15
Agricultural services, forestry, fisheries, and other[b]	8,239	0.42	47	9
State and local government	220,353	11.33	50	6
Federal, civilian	75,082	3.86	41	6
Federal, military	34,550	1.78	68	7
TOTAL	1,943,947	100.00	47	6

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

a. Estimates based on 1972 standard industrial classification.

b. Includes wages and salaries of U.S. residents working for international organizations in the U.S.

TABLE VI-6. QUARTERLY PERSONAL INCOME IN MICHIGAN AND THE UNITED STATES, SEASONALLY ADJUSTED ANNUAL RATES: 1969-1984

(In millions of dollars)

Year and quarter	Michigan	United States	Year and quarter	Michigan	United States
1969			1970		
First	34,985	726,965	First	36,475	786,609
Second	35,674	743,953	Second	37,552	807,993
Third	36,440	759,986	Third	37,791	816,677
Fourth	37,126	774,796	Fourth	36,813	821,614
1971			1972		
First	37,065	827,995	First	41,932	905,060
Second	37,552	807,993	Second	42,909	920,203
Third	39,355	857,893	Third	43,666	941,186
Fourth	40,345	874,406	Fourth	45,220	975,403
1973			1974		
First	47,108	1,004,828	First	51,300	1,107,391
Second	48,114	1,031,131	Second	52,539	1,137,933
Third	50,305	1,066,790	Third	54,858	1,171,724
Fourth	51,826	1,099,630	Fourth	55,277	1,189,836
1975			1976		
First	52,212	1,197,357	First	59,455	1,333,366
Second	53,565	1,230,670	Second	61,188	1,356,675
Third	55,455	1,267,216	Third	61,985	1,385,519
Fourth	57,093	1,298,542	Fourth	63,972	1,421,988
1977			1978		
First	65,847	1,471,331	First	74,023	1,638,631
Second	68,169	1,508,990	Second	75,956	1,696,370
Third	70,858	1,555,422	Third	78,751	1,755,466
Fourth	72,286	1,603,089	Fourth	81,384	1,814,273
1979			1980		
First	84,136	1,863,990	First	89,321	2,083,907
Second	84,680	1,907,993	Second	88,576	2,110,281
Third	86,068	1,973,293	Third	90,667	2,177,241
Fourth	86,907	2,025,324	Fourth	94,160	2,255,412
1981			1982		
First	94,530	2,333,358	First	96,441	2,527,116
Second	95,959	2,380,584	Second	97,794	2,560,121
Third	97,179	2,468,871	Third	98,334	2,586,519
Fourth	97,336	2,497,551	Fourth	99,328	2,629,632
1983			1984		
First	100,770	2,651,672	First	111,072	2,906,532
Second	102,802	2,705,157	Second	112,717	2,970,393
Third	104,771	2,754,010	Third	114,584	3,039,948
Fourth	107,943	2,827,017	Fourth	116,025	3,036,435

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-5. ANALYSIS OF THE DIVIDEND, INTEREST, AND RENT COMPONENT OF PERSONAL INCOME IN MICHIGAN AND THE UNITED STATES: 1978-1983

(Dollar figures in thousands)

Year		Dividends	Interest		Rent		Total
			Monetary	Imputed[a]	Monetary	Imputed[b]	
1978	Michigan	1,673,363	4,369,454	2,450,815	511,494	382,026	9,387,152
	United States	45,310,000	116,921,000	62,436,000	18,572,000	8,028,000	251,267,000
	Percentage[c]	3.7	3.7	3.9	2.8	4.8	3.7
1979	Michigan	1,830,809	5,301,642	2,819,421	561,026	304,651	10,817,549
	United States	50,757,000	145,408,000	73,319,000	20,657,000	7,252,000	297,393,000
	Percentage[c]	3.6	3.7	3.9	2.7	4.2	3.6
1980	Michigan	1,876,817	6,517,827	3,074,770	593,612	338,431	12,401,457
	United States	56,807,000	183,668,000	82,300,000	23,054,000	8,461,000	354,290,000
	Percentage[c]	3.3	3.6	3.7	2.6	4.0	3.5
1981	Michigan	1,975,437	8,565,272	3,260,374	719,659	509,458	15,030,200
	United States	64,332,000	243,169,000	88,664,000	29,197,000	13,134,000	438,496,000
	Percentage[c]	3.1	3.5	3.7	2.5	3.9	3.4
1982	Michigan	1,944,547	8,966,538	3,773,807	793,902	694,738	16,173,532
	United States	66,483,000	260,504,000	106,075,000	33,296,000	18,210,000	484,568,000
	Percentage[c]	2.9	3.4	3.6	2.4	3.8	3.3
1983	Michigan	2,054,131	8,896,525	4,237,241	871,727	863,363	16,922,987
	United States	70,261,000	257,997,000	118,337,000	36,509,000	21,801,000	504,905,000
	Percentage[c]	2.9	3.5	3.6	2.4	4.0	3.4

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

a. Value of financial services (mostly "free" checking accounts) rendered persons by banks and other financial institutions without charge plus income withheld by life insurance companies and mutual financial intermediaries on the account of persons, such as the addition of income to policy holder reserves held by life insurance companies.

b. Gross rental income imputed to nonfarm residents of owner-occupied nonfarm dwelling units less the normal expenses incurred in home ownership; that is, the net rent that nonrenters save from owning the homes they live in.

c. Michigan as a percentage of United States.

TABLE VI-7. TOTAL PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1975-1983

(In millions of dollars)

County	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alcona	32.8	37.9	43.0	51.0	57.1	62.5	70.1	73.3	78.1
Alger	34.4	38.9	43.5	51.9	56.3	60.4	64.6	67.5	71.5
Allegan	336.6	375.8	430.5	531.6	611.9	637.9	697.8	721.4	766.3
Alpena	155.3	171.3	189.4	210.6	232.3	249.9	265.3	265.4	282.1
Antrim	67.0	74.0	86.1	97.8	111.7	119.5	131.3	135.0	139.1
Arenac	55.7	65.3	74.2	82.8	92.6	98.7	109.2	112.7	119.8
Baraga	35.7	39.8	43.1	49.4	54.3	58.0	61.8	62.2	65.0
Barry	197.1	219.0	246.0	297.3	336.7	352.6	393.1	404.0	431.3
Bay	650.1	736.2	837.6	925.6	1,013.9	1,063.9	1,145.6	1,158.4	1,222.1
Benzie	44.6	50.1	58.3	66.6	73.2	76.5	85.5	90.6	97.5
Berrien	965.2	1,032.9	1,160.5	1,270.7	1,375.0	1,446.9	1,564.1	1,603.2	1,690.5
Branch	197.7	218.4	253.7	288.5	322.5	328.4	352.9	357.3	383.0
Calhoun	860.7	955.6	1,043.9	1,140.2	1,252.0	1,328.9	1,432.6	1,473.9	1,527.2
Cass	238.6	272.8	300.5	339.2	382.4	391.3	418.6	422.6	482.7
Charlevoix	87.4	97.4	112.6	128.3	143.3	154.9	166.1	172.4	180.7
Cheboygan	83.8	93.7	105.7	117.7	132.9	145.7	154.9	160.2	168.8
Chippewa	151.2	165.7	164.8	163.8	174.2	186.5	204.1	212.4	220.9
Clare	84.1	96.0	112.5	127.1	141.7	149.0	165.3	173.7	185.4
Clinton	271.7	303.5	347.0	414.9	467.5	485.5	529.5	543.9	592.4
Crawford	35.3	39.1	43.8	49.0	53.8	59.6	66.3	69.3	73.6
Delta	176.6	200.8	216.2	234.8	259.5	283.5	316.9	338.7	350.5
Dickinson	136.4	152.0	170.8	189.5	212.0	224.5	237.5	253.8	266.9
Eaton	423.5	479.4	565.8	698.6	804.3	844.8	915.3	934.8	1,004.6
Emmet	108.5	121.4	136.2	153.9	173.4	190.6	205.9	217.2	234.0
Genesee	2,635.5	3,143.6	3,623.2	3,965.8	4,325.8	4,577.0	4,911.0	4,795.7	5,201.9

TABLE VI-7. TOTAL PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1975-1983 (cont.)

(In millions of dollars)

County	1975	1976	1977	1978	1979	1980	1981	1982	1983
Gladwin	66.4	74.4	86.6	106.3	122.4	130.3	141.7	148.4	159.4
Gogebic	96.6	103.3	107.5	115.3	125.4	134.7	145.9	156.1	162.2
Grand Traverse	259.8	293.4	341.3	397.5	450.5	494.2	541.8	570.6	609.7
Gratiot	215.5	233.2	253.6	276.5	305.5	328.4	348.7	364.9	381.0
Hillsdale	195.2	217.5	248.2	274.5	305.8	316.5	351.0	360.7	383.8
Houghton	147.9	165.5	182.3	198.6	216.7	241.3	266.2	274.9	294.5
Huron	181.7	198.2	219.2	238.5	264.1	294.5	319.6	336.9	355.2
Ingham	1,598.5	1,822.4	2,043.7	2,162.0	2,389.2	2,629.3	2,844.9	2,936.4	3,171.8
Ionia	215.7	238.0	266.4	330.8	369.5	405.2	433.2	436.9	464.5
Iosco	129.7	145.0	155.5	168.8	185.1	198.1	215.1	230.8	249.9
Iron	63.0	70.0	77.0	83.6	93.4	100.9	113.8	118.8	127.6
Isabella	200.8	224.2	248.7	295.5	332.3	355.5	398.5	415.3	440.4
Jackson	848.8	913.9	1,016.6	1,148.3	1,263.2	1,330.4	1,437.4	1,457.8	1,513.9
Kalamazoo	1,235.0	1,370.6	1,535.0	1,711.5	1,909.1	2,094.8	2,292.0	2,369.8	2,529.3
Kalkaska	37.0	44.0	50.9	59.5	66.6	71.8	84.4	87.8	92.4
Kent	2,449.5	2,712.0	3,044.2	3,437.1	3,892.6	4,192.4	4,596.8	4,812.9	5,174.0
Keweenaw	8.7	9.6	9.7	10.7	11.8	13.1	14.2	14.7	15.7
Lake	24.8	27.6	30.8	34.8	38.9	42.0	47.0	50.7	54.0
Lapeer	296.8	342.5	420.1	520.9	596.3	627.4	655.8	653.6	684.7
Leelanau	62.6	67.7	82.0	104.2	113.1	116.0	131.0	137.6	148.3
Lenawee	477.7	525.0	601.9	673.5	748.6	786.0	847.0	867.0	919.4
Livingston	413.1	494.9	585.2	818.7	965.5	1,021.9	1,069.8	1,094.6	1,155.0
Luce	33.6	37.7	41.7	40.6	44.4	49.5	52.5	54.8	57.1
Mackinac	44.2	50.1	54.9	61.8	67.7	72.9	81.9	86.1	91.8
Macomb	4,284.0	4,962.7	5,783.0	6,514.1	7,203.2	7,544.9	8,026.6	8,179.3	8,712.9

TABLE VI-7. TOTAL PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1975-1983 (cont.)

(In millions of dollars)

County	1975	1976	1977	1978	1979	1980	1981	1982	1983
Manistee	99.5	110.5	126.9	146.4	160.6	171.6	186.8	188.0	202.3
Marquette	347.0	390.7	423.2	493.2	543.6	572.6	619.3	622.0	646.5
Mason	110.2	121.4	136.6	153.8	171.3	185.0	202.3	205.1	215.7
Mecosta	114.7	124.4	139.4	159.3	180.2	207.1	218.1	226.2	242.8
Menominee	111.2	123.3	137.9	158.0	177.4	188.9	208.0	218.1	230.3
Midland	423.3	483.1	545.9	613.2	686.0	741.0	820.3	849.7	910.1
Missaukee	33.7	37.1	40.3	48.9	55.7	60.3	65.7	68.6	73.6
Monroe	695.8	785.5	909.4	1,022.1	1,144.2	1,206.9	1,284.2	1,324.7	1,411.3
Montcalm	209.0	227.3	258.8	283.9	313.5	357.1	397.2	406.6	437.7
Montmorency	26.4	30.0	34.9	41.9	47.0	49.9	54.5	58.2	63.2
Muskegon	814.1	891.6	980.9	1,089.0	1,209.0	1,293.9	1,392.9	1,429.1	1,493.8
Newaygo	133.2	148.2	164.9	198.9	223.7	233.3	257.3	273.2	290.3
Oakland	7,366.1	8,342.7	9,682.6	11,841.2	13,241.0	13,819.5	14,593.5	14,824.7	15,801.3
Oceana	85.8	93.7	108.2	[illegible]27.0	138.6	145.1	159.2	165.0	175.9
Ogemaw	55.6	63.3	70.9	80.1	92.2	99.7	108.9	114.8	121.0
Ontonagon	50.5	49.3	51.2	52.3	56.9	63.9	73.8	75.5	70.9
Osceola	71.6	73.7	84.2	92.8	103.1	116.7	126.8	136.0	146.5
Oscoda	20.6	23.1	25.4	32.1	35.8	38.1	41.5	43.8	46.5
Otsego	62.9	73.1	84.7	95.9	107.8	118.4	130.1	130.6	140.3
Ottawa	756.8	852.2	994.1	1,149.8	1,321.0	1,412.6	1,555.8	1,630.3	1,751.4
Presque Isle	57.5	62.7	69.9	76.8	84.7	90.8	101.6	106.5	111.2
Roscommon	58.3	66.9	76.8	91.0	103.6	116.2	130.2	139.9	149.7
Saginaw	1,294.4	1,511.5	1,714.0	1,823.2	1,976.0	2,112.5	2,233.8	2,211.7	2,344.6
St. Clair	687.1	774.0	882.7	1,101.8	1,220.5	1,278.3	1,367.9	1,396.1	1,476.1
St. Joseph	275.4	305.6	340.9	384.9	430.8	464.4	506.1	529.5	562.8

TABLE VI-7. TOTAL PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1975-1983 (cont.)

(In millions of dollars)

County	1975	1976	1977	1978	1979	1980	1981	1982	1983
Sanilac	180.0	198.7	224.4	270.3	300.3	325.4	347.6	354.8	359.8
Schoolcraft	36.6	40.0	44.5	48.4	54.0	58.9	63.2	68.5	70.3
Shiawassee	372.9	412.4	468.8	538.9	601.3	623.6	661.5	670.0	701.1
Tuscola	272.0	307.4	352.1	380.1	423.0	445.1	481.5	485.6	512.9
Van Buren	297.3	329.2	372.0	421.5	465.8	495.6	544.8	554.8	596.8
Washtenaw	1,533.7	1,750.8	1,993.7	2,425.1	2,727.6	2,985.5	3,146.5	3,273.3	3,456.3
Wayne	16,133.2	17,881.9	19,723.6	20,514.8	21,954.1	23,261.1	23,857.3	23,936.9	25,259.6
Wexford	100.9	114.6	131.9	141.0	156.4	173.5	190.6	199.7	214.1
Michigan	61,324.4	69,290.7	77,776.5	77,528.1	85,447.7	90,681.3	96,250.9	97,974.6	104,071.3
U.S.	1,258,643	1,385,201	1,534,708	1,726,185	1,942,650	2,156,710	2,420,091	2,575,847	2,734,464
Metropolitan Statistical Area									
Ann Arbor	1,533.7	1,750.8	1,993.7	2,425.1	2,727.6	2,985.5	3,146.5	3,273.3	3,456.3
Battle Creek	860.7	955.6	1,043.9	1,140.2	1,252.0	1,328.9	1,432.6	1,473.9	1,527.2
Benton Harbor	965.2	1,032.9	1,160.5	1,270.7	1,375.0	1,446.9	1,564.1	1,603.2	1,690.5
Detroit	30,571.8	34,369.6	38,896.0	42,333.6	46,324.6	48,760.0	50,855.0	51,409.9	54,501.0
Flint	2,635.5	3,143.6	3,623.2	3,965.8	4,325.8	4,577.0	4,911.0	4,795.7	5,201.9
Grand Rapids	3,206.2	3,564.2	4,038.3	4,586.9	5,213.6	5,605.0	6,152.5	6,443.2	6,925.4
Jackson	848.8	913.9	1,016.6	1,148.3	1,263.2	1,330.4	1,437.4	1,457.8	1,513.9
Kalamazoo	1,235.0	1,370.6	1,535.0	1,711.5	1,909.1	2,094.8	2,292.0	2,369.8	2,529.3
Lansing-East Lansing	2,293.8	2,605.3	2,956.5	3,275.5	3,661.1	3,959.6	4,289.7	4,415.1	4,768.9
Muskegon	814.1	891.6	980.9	1,089.0	1,209.0	1,293.9	1,392.9	1,429.1	1,493.8
Saginaw-Bay City-Midland	2,367.8	2,730.8	3,097.4	3,362.1	3,675.9	3,917.4	4,199.8	4,219.9	4,476.8

SOURCE: Bureau of Economic Analysis, Regional Economics Information System, special release.

TABLE VI-8. PER CAPITA PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1975-1983 (cont.)

(In dollars)

County	1975	1976	1977	1978	1979	1980	1981	1982	1983
Sanilac	4,591	5,006	5,637	6,708	7,416	7,975	8,571	8,886	9,083
Schoolcraft	4,306	4,572	5,036	5,426	6,219	6,923	7,411	8,037	8,252
Shiawassee	5,404	5,985	6,751	7,652	8,423	8,764	9,358	9,630	10,091
Tuscola	5,072	5,659	6,410	6,817	7,516	7,801	8,496	8,700	9,207
Van Buren	4,700	5,168	5,762	6,470	7,058	7,401	8,219	8,354	9,029
Washtenaw	6,110	6,895	7,745	9,335	10,376	11,261	11,973	12,548	13,414
Wayne	6,427	7,264	8,161	8,606	9,330	9,993	10,380	10,679	11,368
Wexford	4,405	4,933	5,538	5,806	6,299	6,890	7,477	7,775	8,397
Michigan	5,988	6,726	7,567	8,425	9,239	9,798	10,451	10,748	11,476
U.S.	5,842	6,367	6,984	7,772	8,651	9,494	10,544	11,113	11,687
Metropolitan Statistical Areas									
Ann Arbor	6,110	6,895	7,745	9,335	10,376	11,261	11,973	12,548	13,414
Battle Creek	6,034	6,713	7,312	7,948	8,796	9,418	10,217	10,558	11,082
Benton Harbor	5,567	5,907	6,636	7,327	7,919	8,474	9,250	9,699	10,314
Detroit[a]	6,609	7,482	8,475	9,430	10,315	10,880	11,454	11,766	12,537
Flint	5,898	7,066	8,114	8,821	9,590	10,171	10,990	10,898	11,876
Grand Rapids	5,708	6,293	7,042	7,884	8,797	9,284	10,134	10,538	11,334
Jackson	5,739	6,154	6,764	7,579	8,322	8,793	9,610	9,822	10,329
Kalamazoo	6,062	6,656	7,398	8,187	9,079	9,854	10,764	11,073	11,966
Lansing-East Lansing	5,754	6,504	7,311	7,990	8,851	9,493	10,233	10,637	11,609
Muskegon	5,210	5,665	6,228	6,925	7,649	8,219	8,872	9,189	9,671
Saginaw-Bay City-Midland	5,709	6,564	7,388	7,985	8,732	9,304	10,001	10,162	10,824

SOURCE: Bureau of Economic Analysis, Regional Economics Information System, special release.

a. Monroe County data not included for years 1975, 1976, and 1977.

TABLE VI-9. PERCENTAGE CHANGE IN PER CAPITA PERSONAL INCOME, 1973-1983 AND 1982-1983, AND RANKING OF MICHIGAN COUNTIES ACCORDING TO PER CAPITA PERSONAL INCOME: 1983

County	Per capita personal income	Percent change 1973-1983	Percent change 1982-1983	County	Per capita personal income	Percent change 1973-1983	Percent change 1982-1983
Oakland	15,814	128.5	6.7	Manistee	9,042	154.6	7.8
Washtenaw	13,414	152.5	6.9	Van Buren	9,029	115.4	8.1
Macomb	12,667	115.8	6.6	Marquette	9,003	125.8	5.6
Midland	12,245	137.7	6.5	Delta	8,983	137.2	4.7
Kalamazoo	11,966	134.4	8.1	Ionia	8,980	132.7	6.6
Genesee	11,876	122.4	9.0	Montcalm	8,968	123.5	7.0
Ingham	11,830	128.1	9.5	Alpena	8,947	124.5	7.7
Livingston	11,572	143.1	6.2	Menominee	8,907	145.2	5.7
Eaton	11,510	135.7	8.5	Benzie	8,623	123.9	5.1
Kent	11,463	123.7	7.6	Iosco	8,562	116.5	7.3
Wayne	11,368	95.5	6.5	Gogebic	8,490	126.6	6.0
Calhoun	11,082	114.4	5.0	Antrim	8,447	123.6	3.2
Ottawa	10,968	126.8	7.5	Roscommon	8,415	149.9	4.7
Dickinson	10,790	145.9	7.5	Wexford	8,397	124.5	8.0
Grand Traverse	10,785	136.0	6.3	Mason	8,308	125.6	7.4
St. Clair	10,771	134.1	6.2	Kalkaska	8,252	132.5	4.7
Clinton	10,696	128.2	8.7	Schoolcraft	8,252	148.3	2.7
Monroe	10,677	115.1	6.2	Isabella	8,232	142.1	6.0
Saginaw	10,554	104.6	6.6	Newaygo	8,166	116.6	6.6
Bay	10,434	126.5	6.4	Montmorency	8,158	146.2	3.9
Lenawee	10,423	113.5	6.7	Cheboygan	8,075	122.9	5.0
Leelanau	10,396	146.0	8.3	Keweenaw	8,033	132.6	10.4
Jackson	10,329	103.0	5.2	Presque Isle	8,022	144.6	5.3
Berrien	10,314	105.3	6.3	Houghton	7,946	147.2	9.5
Emmet	10,191	136.9	9.0	Oceana	7,943	120.3	5.2
Shiawassee	10,091	112.9	4.8	Arenac	7,915	116.0	5.4
St. Joseph	10,034	111.6	8.2	Alger	7,907	143.8	6.6
Cass	9,928	109.6	8.8	Baraga	7,719	114.3	4.4
Branch	9,916	135.0	8.7	Chippewa	7,719	122.4	5.9
Lapeer	9,875	117.8	5.3	Alcona	7,698	143.8	2.7
Huron	9,852	118.9	6.1	Gladwin	7,634	124.1	5.1
Gratiot	9,749	108.7	5.4	Clare	7,618	130.4	6.1
Muskegon	9,671	121.0	5.2	Osceola	7,353	106.2	5.9
Luce	9,613	162.9	8.1	Crawford	7,250	127.7	0.6
Barry	9,404	127.6	7.1	Ontonagon	7,149	98.2	-4.3
Iron	9,396	164.2	7.6	Missaukee	7,028	102.5	6.5
Allegan	9,292	128.0	6.6	Ogemaw	6,986	119.7	2.3
Hillsdale	9,284	110.0	6.6	Oscoda	6,534	127.7	4.2
Otsego	9,236	138.0	7.4	Mecosta	6,533	137.1	6.7
Tuscola	9,207	104.3	5.8	Lake	6,476	101.4	4.0
Charlevoix	9,163	132.2	4.6				
Sanilac	9,083	121.1	2.2	Michigan	11,476	115.2	6.8
Mackinac	9,045	150.3	6.8	United States	11,687	133.3	5.2

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-10. DIVIDENDS, INTEREST, AND RENT PER CAPITA, AND RANKING OF MICHIGAN COUNTIES ACCORDING TO DIVIDENDS, INTEREST, AND RENT AS A PERCENTAGE OF TOTAL PERSONAL INCOME: 1983

County	Percentage	Per capita	County	Percentage	Per capita
Roscommon	29.9	251	Baraga	17.9	139
Huron	28.7	283	Alpena	17.9	160
Leelanau	28.3	294	Chippewa	17.8	138
Montmorency	27.8	226	Delta	17.8	160
Benzie	26.7	230	Osceola	17.7	130
Alcona	26.7	206	Ontonagon	17.6	126
Antrim	26.1	220	Branch	17.5	174
Oscoda	26.0	170	Hillsdale	17.4	162
Emmet	24.9	254	Barry	17.3	163
Sanilac	24.8	225	Midland	17.3	212
Crawford	23.7	171	Alger	17.2	136
Otsego	23.0	212	Ottawa	16.7	184
Presque Isle	22.8	183	Kent	16.7	192
Missaukee	22.5	158	Mecosta	16.6	109
Cheboygan	22.5	182	Cass	16.5	164
Mackinac	22.3	200	Newaygo	16.5	135
Ogemaw	22.2	155	Saginaw	16.4	173
Manistee	22.1	200	St. Clair	16.3	176
Mason	22.1	184	Isabella	16.3	134
Gogebic	21.8	185	Jackson	16.3	168
Arenac	21.7	172	Kalamazoo	16.1	193
Keweenaw	21.7	170	Allegan	16.0	149
Charlevoix	20.5	188	Van Buren	15.9	144
Grand Traverse	20.4	220	Macomb	15.7	199
Oceana	20.3	161	Calhoun	15.5	172
Houghton	20.2	160	Montcalm	15.5	139
Clare	19.7	150	Washtenaw	15.5	208
Iron	19.6	184	Ionia	14.9	134
Lake	19.5	127	Clinton	14.8	159
Dickinson	19.4	210	Livingston	14.8	171
Tuscola	19.1	175	Muskegon	14.8	143
Oakland	18.9	299	Shiawassee	14.6	147
Iosco	18.9	162	Monroe	14.5	155
Menominee	18.8	167	Lapeer	14.4	143
Kalkaska	18.7	155	Eaton	14.4	166
Schoolcraft	18.6	154	Marquette	14.4	129
Gladwin	18.5	141	Wayne	14.3	162
Wexford	18.5	155	Ingham	13.9	165
Bay	18.5	193	Luce	13.6	132
Gratiot	18.2	178	Genesee	13.2	157
Berrien	18.1	187			
St. Joseph	18.1	181	Michigan	16.3	187
Lenawee	18.0	188	United States	18.5	216

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-11. GROWTH IN TOTAL PERSONAL INCOME, 1973-1983, AND RANKING OF MICHIGAN COUNTIES ACCORDING TO GROWTH IN TOTAL PERSONAL INCOME: 1982-1983

	Percentage change			Percentage change	
County	1973-1983	1982-1983	County	1973-1983	1982-1983
Cass	122	9	Newaygo	155	6
Clinton	148	9	Allegan	164	6
Montmorency	202	9	Crawford	205	6
Genesee	116	8	Oscoda	197	6
Iosco	129	8	Lenawee	120	6
Ingham	129	8	Isabella	165	6
Leelanau	186	8	Saginaw	102	6
Emmet	166	8	Alger	162	6
Osceola	145	8	St. Clair	150	6
Montcalm	157	8	Tuscola	119	6
Manistee	165	8	Washtenaw	164	6
Benzie	166	8	Menominee	155	6
Van Buren	133	8	Wayne	67	6
Kent	142	8	Livingston	249	6
Eaton	173	7	Bay	121	5
Gladwin	200	7	Berrien	97	5
Otsego	193	7	Huron	121	5
Ottawa	165	7	Cheboygan	151	5
Iron	165	7	Ogemaw	184	5
Mecosta	168	7	Kalkaska	306	5
Missaukee	169	7	Mason	134	5
Wexford	160	7	Dickinson	151	5
Branch	128	7	Charlevoix	155	5
Keweenaw	115	7	Lapeer	162	5
Houghton	148	7	Shiawassee	121	5
Midland	166	7	Muskegon	117	5
Roscommon	245	7	Gratiot	102	4
Grand Traverse	201	7	Presque Isle	144	4
Barry	155	7	Baraga	126	4
Kalamazoo	146	7	Luce	126	4
Clare	188	7	Chippewa	81	4
Oceana	148	7	Marquette	136	4
Mackinac	150	7	Gogebic	105	4
Oakland	143	7	Jackson	105	4
Monroe	129	7	Calhoun	108	4
Macomb	129	7	Delta	147	3
Alcona	194	7	Antrim	161	3
Lake	154	6	Schoolcraft	150	3
Hillsdale	121	6	Sanilac	131	1
Ionia	152	6	Ontonagon	76	-6
Alpena	124	6			
St. Joseph	133	6	Michigan	115	6
Arenac	161	6	United States	158	6

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-12. GROWTH IN LABOR AND PROPRIETORS' EARNINGS, BY COUNTY IN WHICH EARNED, 1973-1983, AND RANKING OF MICHIGAN COUNTIES ACCORDING TO GROWTH IN LABOR AND PROPRIETORS' EARNINGS, BY COUNTY IN WHICH EARNED: 1982-1983

County	Percentage change		County	Percentage change	
	1973-1983	1982-1983		1973-1983	1982-1983
Iron	120	17	Ionia	77	6
Cass	77	16	Clare	112	6
Montcalm	134	12	Allegan	104	6
Clinton	116	12	Tuscola	66	5
Genesee	94	12	Lake	34	5
Monroe	122	11	Mecosta	105	5
Ingham	130	11	Shiawassee	70	5
Wexford	126	11	Marquette	103	5
Iosco	81	11	Montmorency	43	5
Emmet	115	11	Gratiot	67	5
Alger	82	11	Lenawee	50	5
Manistee	115	10	Keweenaw	-18	5
Ottawa	144	10	Isabella	135	5
Benzie	96	10	Mason	81	5
Oscoda	59	10	Ogemaw	118	5
Otsego	160	10	Alcona	73	5
Macomb	82	10	Cheboygan	91	4
Osceola	88	10	Wayne	50	4
Roscommon	116	9	Berrien	57	4
Branch	89	9	Baraga	58	4
Saginaw	79	9	St. Clair	109	4
Leelanau	66	9	Charlevoix	106	4
Arenac	88	9	Presque Isle	76	3
Lapeer	98	9	Bay	80	3
Livingston	150	9	Muskegon	82	3
Kent	128	9	Van Buren	75	3
Menominee	108	9	Crawford	113	3
Oakland	133	9	Chippewa	22	2
Washtenaw	143	9	Barry	76	2
Houghton	115	9	Calhoun	73	2
Oceana	81	8	Midland	132	2
Alpena	61	8	Delta	104	2
Gladwin	97	8	Jackson	67	2
Mackinac	100	8	Kalkaska	352	2
Kalamazoo	132	7	Gogebic	56	1
Luce	129	7	Sanilac	41	1
Dickinson	112	7	Schoolcraft	106	0
Grand Traverse	174	7	Missaukee	59	-3
Eaton	93	6	Antrim	65	-3
Huron	55	6	Ontonagon	-15	-30
St. Joseph	89	6			
Newaygo	96	6	Michigan	85	7
Hillsdale	78	6	United States	132	6

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-13. EARNINGS RESIDENCE ADJUSTMENT FOR MICHIGAN COUNTIES: 1983

(Dollar figures in thousands)

County	Labor and proprietors' earnings, by county in which earned	Residence adjustment	Labor and proprietors' earnings, by county in which received	(a) Proportion
Eaton	217,190	534,311	751,501	0.7110
Clinton	153,573	285,724	439,297	0.6504
Livingston	309,008	554,688	863,696	0.6422
Leelanau	35,321	45,143	80,464	0.5610
Keweenaw	2,816	3,191	6,007	0.5312
Barry	137,605	153,830	291,435	0.5278
Lapeer	242,152	230,526	472,678	0.4877
Gladwin	44,797	39,011	83,808	0.4655
Shiawassee	253,133	218,346	471,479	0.4631
Cass	177,488	150,836	328,324	0.4594
Missaukee	20,835	17,078	37,913	0.4505
Oceana	55,104	41,522	96,626	0.4297
Alcona	16,841	11,496	28,337	0.4057
Allegan	314,940	212,609	527,549	0.4030
Ionia	189,490	122,799	312,289	0.3932
Arenac	37,821	23,027	60,848	0.3784
Oscoda	12,005	7,246	19,251	0.3764
Tuscola	201,303	116,514	317,817	0.3666
Monroe	640,297	361,222	1,001,519	0.3607
Newaygo	114,300	64,473	178,773	0.3606
Lake	13,281	7,336	20,617	0.3558
Van Buren	238,061	131,327	369,388	0.3555
St. Clair	685,486	291,740	977,226	0.2985
Sanilac	132,976	51,907	184,883	0.2808
Macomb	4,615,253	1,683,802	6,299,055	0.2673
Clare	65,497	23,621	89,118	0.2651
Montmorency	15,843	5,122	20,965	0.2443
Alger	30,805	9,280	40,085	0.2315
Antrim	51,190	15,323	66,513	0.2304
Hillsdale	192,148	51,024	243,172	0.2098
Lenawee	476,580	122,380	598,960	0.2043
Bay	631,847	155,556	787,403	0.1976
Menominee	115,255	24,099	139,354	0.1729
Ottawa	1,036,228	211,355	1,247,583	0.1694
Oakland	9,345,223	1,861,555	11,206,778	0.1661

TABLE VI-13. EARNINGS RESIDENCE ADJUSTMENT FOR MICHIGAN COUNTIES: 1983 (cont.)

(Dollar figures in thousands)

County	Labor and proprietors' earnings, by county in which earned	Residence adjustment	Labor and proprietors' earnings, by county in which received	(a) Proportion
Mecosta	121,345	21,087	142,432	0.1480
Gogebic	61,666	10,322	71,988	0.1434
Benzie	39,683	6,212	45,895	0.1354
Iron	56,285	7,941	64,226	0.1236
Roscommon	44,614	6,009	50,623	0.1187
Gratiot	215,066	28,581	243,647	0.1173
Baraga	29,354	3,875	33,229	0.1166
Crawford	32,087	3,355	35,442	0.0947
Isabella	265,373	27,209	292,582	0.0930
St. Joseph	334,494	29,236	363,730	0.0804
Charlevoix	94,392	7,926	102,318	0.0775
Branch	225,764	18,762	244,526	0.0767
Kalkaska	49,900	3,866	53,766	0.0719
Chippewa	108,549	7,181	115,730	0.0620
Huron	166,825	10,378	177,203	0.0586
Ogemaw	51,344	2,988	54,332	0.0550
Presque Isle	52,613	2,954	55,567	0.0532
Jackson	957,534	52,804	1,010,338	0.0523
Montcalm	258,868	14,240	273,108	0.0521
Cheboygan	79,907	3,023	82,930	0.0365
Houghton	149,563	2,858	152,421	0.0188
Berrien	1,060,077	15,491	1,075,568	0.0144
Mackinac	47,025	411	47,436	0.0087
Manistee	107,012	876	107,888	0.0081
Osceola	80,428	117	80,545	0.0015
Schoolcraft	35,925	51	35,976	0.0014
Mason	117,815	1	117,816	0.0000
Delta	202,130	-2,051	200,079	-0.0101
Muskegon	989,904	-20,247	969,657	-0.0205
Marquette	437,844	-9,219	428,625	-0.0211
Dickinson	164,803	-6,606	158,197	-0.0401
Iosco	146,718	-6,095	140,623	-0.0415
Calhoun	1,044,613	-45,648	998,965	-0.0437
Alpena	171,010	-9,416	161,594	-0.0551
Emmet	138,170	-10,766	127,404	-0.0779

TABLE VI-8. PER CAPITA PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1975-1983

(In dollars)

County	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alcona	3,775	4,225	4,646	5,384	5,977	6,397	7,113	7,495	7,698
Alger	3,922	4,303	4,650	5,534	6,001	6,577	7,012	7,419	7,907
Allegan	4,551	4,958	5,561	6,750	7,565	7,794	8,514	8,713	9,292
Alpena	4,817	5,319	5,870	6,573	7,190	7,735	8,202	8,307	8,947
Antrim	4,376	4,762	5,457	6,079	6,796	7,381	8,060	8,186	8,447
Arenac	4,179	4,840	5,353	5,914	6,388	6,675	7,387	7,510	7,915
Baraga	4,392	4,851	5,113	5,729	6,265	6,865	7,296	7,395	7,719
Barry	4,655	5,098	5,650	6,728	7,421	7,673	8,566	8,781	9,404
Bay	5,397	6,107	6,893	7,584	8,375	8,909	9,609	9,811	10,434
Benzie	4,434	4,773	5,425	6,144	6,556	6,805	7,608	8,204	8,623
Berrien	5,567	5,907	6,636	7,327	7,919	8,474	9,250	9,699	10,314
Branch	5,068	5,536	6,412	7,149	7,858	8,187	8,945	9,125	9,916
Calhoun	6,034	6,713	7,312	7,948	8,796	9,418	10,217	10,558	11,082
Cass	5,025	5,712	6,252	7,017	7,722	7,889	8,428	9,128	9,928
Charlevoix	4,735	5,140	5,809	6,649	7,265	7,756	8,305	8,763	9,163
Cheboygan	4,342	4,750	5,293	5,866	6,545	7,036	7,425	7,690	8,075
Chippewa	4,160	4,457	4,495	5,270	5,767	6,498	6,980	7,289	7,719
Clare	4,019	4,401	5,029	5,555	6,078	6,227	6,865	7,180	7,618
Clinton	5,119	5,679	6,335	7,463	8,313	8,691	9,537	9,843	10,696
Crawford	4,278	4,443	4,828	5,366	5,728	6,277	6,932	7,210	7,250
Delta	4,577	5,139	5,509	5,990	6,628	7,294	8,091	8,581	8,983
Dickinson	5,481	6,062	6,730	7,371	8,246	8,890	9,390	10,036	10,790
Eaton	5,303	5,986	6,857	8,194	9,144	9,528	10,379	10,609	11,510
Emmet	4,990	5,518	6,152	6,820	7,559	8,278	8,903	9,348	10,191
Genesee	5,898	7,066	8,114	8,821	9,590	10,171	10,990	10,898	11,876

TABLE VI-8. PER CAPITA PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1975-1983 (cont.)

(In dollars)

County	1975	1976	1977	1978	1979	1980	1981	1982	1983
Gladwin	3,897	4,241	4,792	5,679	6,155	6,479	6,973	7,264	7,634
Gogebic	4,553	4,913	5,157	5,613	6,180	6,894	7,490	8,010	8,490
Grand Traverse	5,608	6,152	6,916	7,748	8,417	8,929	9,686	10,145	10,785
Gratiot	5,347	5,824	6,303	6,880	7,576	8,122	8,694	9,247	9,749
Hillsdale	4,823	5,332	6,047	6,609	7,403	7,519	8,397	8,709	9,284
Houghton	3,884	4,279	4,685	5,185	5,683	6,391	7,005	7,254	7,946
Huron	5,010	5,436	6,004	6,501	7,187	8,096	8,778	9,284	9,852
Ingham	6,017	6,824	7,651	8,034	8,867	9,647	10,326	10,808	11,830
Ionia	4,473	4,828	5,314	6,522	7,169	7,807	8,356	8,424	8,980
Iosco	4,697	5,157	5,393	5,859	6,414	7,014	7,594	7,981	8,562
Iron	4,555	4,981	5,470	5,951	6,667	7,439	8,348	8,736	9,396
Isabella	4,007	4,387	4,722	5,484	6,075	6,575	7,435	7,767	8,232
Jackson	5,739	6,154	6,764	7,579	8,322	8,793	9,610	9,822	10,329
Kalamazoo	6,062	6,656	7,398	8,187	9,079	9,854	10,764	11,073	11,966
Kalkaska	4,933	4,302	5,197	6,324	6,213	6,435	7,659	7,879	8,252
Kent	5,816	6,398	7,117	7,960	8,883	9,405	10,252	10,656	11,463
Keweenaw	4,321	4,599	4,685	5,355	5,994	6,695	7,344	7,274	8,033
Lake	3,514	3,851	4,121	4,603	4,939	5,440	5,901	6,229	6,476
Lapeer	4,828	5,454	6,534	7,829	8,640	8,906	9,370	9,374	9,875
Leelanau	4,955	5,231	6,188	7,699	7,922	8,250	9,235	9,601	10,396
Lenawee	5,426	5,939	6,782	7,488	8,263	8,749	9,454	9,772	10,423
Livingston	5,397	6,199	6,907	9,018	9,986	10,067	10,626	10,893	11,572
Luce	4,881	5,364	5,924	5,836	6,453	7,493	8,209	8,891	9,613
Mackinac	4,289	4,870	5,298	5,896	6,586	7,202	8,045	8,470	9,045
Macomb	6,517	7,500	8,603	9,566	10,445	10,846	11,595	11,885	12,667

TABLE VI-8. PER CAPITA PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1975-1983 (cont.)

(In dollars)

County	1975	1976	1977	1978	1979	1980	1981	1982	1983
Manistee	4,510	4,937	5,621	6,370	6,971	7,464	8,189	8,386	9,042
Marquette	5,001	5,474	5,779	6,575	7,193	7,751	8,414	8,528	9,003
Mason	4,431	4,824	5,334	6,070	6,683	6,988	7,652	7,738	8,308
Mecosta	3,331	3,552	3,915	4,466	4,948	5,582	5,864	6,125	6,533
Menominee	4,409	4,876	5,319	6,019	6,676	7,219	7,941	8,427	8,907
Midland	6,169	6,969	7,701	8,529	9,377	10,052	11,107	11,498	12,245
Missaukee	3,908	4,180	4,421	5,189	5,634	5,979	6,463	6,598	7,028
Monroe	5,509	6,178	6,995	7,717	8,520	8,953	9,621	10,055	10,677
Montcalm	4,716	5,063	5,654	6,136	6,654	7,491	8,227	8,382	8,968
Montmorency	3,892	4,299	4,882	5,640	6,183	6,658	7,201	7,851	8,158
Muskegon	5,210	5,665	6,228	6,925	7,649	8,219	8,872	9,189	9,671
Newaygo	4,188	4,590	4,967	5,845	6,456	6,665	7,293	7,660	8,166
Oakland	7,695	8,667	9,891	11,874	13,119	13,648	14,497	14,825	15,814
Oceana	4,048	4,373	4,985	5,791	6,253	6,600	7,226	7,551	7,943
Ogemaw	3,800	4,261	4,744	5,118	5,685	6,034	6,493	6,830	6,986
Ontonagon	4,449	4,309	4,649	4,946	5,532	6,557	7,372	7,468	7,149
Osceola	4,086	4,055	4,510	4,946	5,519	6,163	6,563	6,945	7,353
Oscoda	3,517	3,924	4,197	4,965	5,394	5,515	5,917	6,269	6,534
Otsego	4,769	5,374	6,050	6,744	7,359	7,849	8,557	8,599	9,236
Ottawa	5,385	5,980	6,820	7,665	8,554	8,941	9,799	10,204	10,968
Presque Isle	4,093	4,400	4,866	5,328	5,863	6,379	7,214	7,620	8,022
Roscommon	4,094	4,519	4,995	5,812	6,349	7,060	7,714	8,037	8,415
Saginaw	5,735	6,685	7,555	8,028	8,715	9,269	9,847	9,905	10,554
St. Clair	5,215	5,823	6,545	8,025	8,783	9,207	9,872	10,138	10,771
St. Joseph	5,259	5,761	6,361	7,070	7,778	8,256	8,911	9,277	10,034

TABLE VI-13. EARNINGS RESIDENCE ADJUSTMENT FOR MICHIGAN COUNTIES: 1983 (cont.)

(Dollar figures in thousands)

	Labor and proprietors' earnings, by county	Residence	Labor and proprietors' earnings, by county	(a)
Midland	716,580	-59,367	657,213	-0.0828
Kalamazoo	1,955,560	-171,816	1,783,744	-0.0879
Genesee	4,123,309	-412,115	3,711,194	-0.0999
Otsego	89,158	-9,807	79,351	-0.1100
Saginaw	1,788,764	-227,901	1,560,863	-0.1274
Kent	4,145,365	-544,446	3,600,919	-0.1313
Grand Traverse	445,318	-64,482	380,836	-0.1448
Wexford	146,031	-24,273	121,758	-0.1662
Washtenaw	3,013,817	-501,583	2,512,234	-0.1664
Ontonagon	41,759	-8,486	33,273	-0.2032
Wayne	20,915,063	-4,338,370	16,576,693	-0.2074
Luce	43,690	-11,748	31,942	-0.2689
Ingham	3,393,820	-1,135,506	2,258,314	-0.3346
Michigan	69,778,627	506,825	70,285,452	0.0072
United States	1,825,145,008	-554,000	1,824,591,008	-0.0003

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

a. Residence Adjustment as percentage of labor and proprietors's earnings received (where positive) or generated (where negative).

TABLE VI-14. RANKING OF MICHIGAN COUNTIES ACCORDING TO NONFARM PROPRIETORS' EARNINGS AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

	Percentage			Percentage	
County	1982	1983	County	1982	1983
Montmorency	16.58	19.46	Bay	4.59	5.23
Lake	16.72	19.41	Mason	4.56	5.13
Alcona	13.71	15.99	Ionia	4.43	5.03
Oscoda	13.29	14.52	Kalkaska	4.47	5.00
Keweenaw	11.88	12.88	Manistee	4.75	4.98
Leelanau	9.90	10.63	Ottawa	4.68	4.97
Mackinac	8.95	9.99	Lapeer	4.57	4.94
Gladwin	9.71	9.91	Houghton	4.11	4.93
Missaukee	7.89	9.81	Delta	4.19	4.87
Clare	8.80	9.66	Isabella	5.12	4.76
Roscommon	7.54	8.21	Menominee	4.28	4.72
Antrim	6.53	8.02	St. Clair	4.23	4.67
Cheboygan	6.46	7.90	Allegan	4.36	4.66
Gogebic	6.12	7.81	Grand Traverse	4.18	4.59
Benzie	7.10	7.73	Dickinson	4.14	4.57
Otsego	7.99	7.68	Montcalm	4.44	4.40
Iron	6.61	7.68	Lenawee	3.91	4.37
Baraga	6.52	7.60	Berrien	3.81	4.36
Oceana	7.11	7.58	Hillsdale	4.43	4.33
Ogemaw	7.93	7.20	Luce	3.85	4.27
Chippewa	5.86	7.17	Alpena	3.35	4.15
Barry	5.98	7.01	Gratiot	3.79	4.15
Presque Isle	5.97	6.97	Branch	3.76	4.10
Crawford	5.88	6.95	Monroe	3.66	3.98
Sanilac	5.86	6.82	Macomb	3.43	3.82
Alger	6.08	6.69	Kent	3.46	3.79
Livingston	5.94	6.59	Iosco	3.35	3.75
Eaton	5.75	6.53	Muskegon	3.19	3.72
Newaygo	5.89	6.44	St. Joseph	3.29	3.67
Tuscola	5.75	6.39	Ontonagon	1.83	3.63
Huron	5.83	6.36	Jackson	3.16	3.58
Wexford	6.21	6.30	Saginaw	2.98	3.25
Schoolcraft	5.23	6.26	Kalamazoo	2.64	3.05
Oakland	5.47	6.15	Marquette	2.50	2.96
Mecosta	5.36	5.93	Calhoun	2.56	2.95
Osceola	5.91	5.90	Washtenaw	2.14	2.36
Arenac	7.01	5.88	Ingham	2.13	2.28
Clinton	5.10	5.68	Genesee	2.04	2.25
Shiawassee	4.99	5.63	Midland	1.87	2.18
Charlevoix	4.82	5.63	Wayne	1.75	2.07
Cass	5.44	5.52			
Emmet	5.05	5.46	Michigan	3.15	3.55
Van Buren	4.65	5.33	United States	4.89	5.55

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-15. MEDIAN EARNINGS OF MICHIGAN WOMEN WHO WORKED YEAR-ROUND, FULL-TIME, TOTAL, SPANISH ORIGIN, AND BY WHITE-BLACK RACIAL DESIGNATION: CENSUS 1980

	Earnings[a]			
Occupation groups and selected occupations	Spanish origin	Black	White	Total
Salaried managers, manufacturing	$20,062	$17,636	$15,989	$16,078
Accountants and auditors	9,786	15,195	13,867	14,112
All executive, administrative and managerial occupations	11,672	15,559	13,308	13,518
Mechanical engineers	25,462	20,728	21,135	21,319
All engineers	19,413	20,191	19,778	20,085
Physicians	23,522	19,230	21,045	23,146
Registered nurses	16,808	16,585	15,867	15,975
Teachers, librarians, and counsellors	14,210	16,224	15,443	15,513
Writers, artists, entertainers, and athletes	12,143	15,185	12,002	12,161
All professional specialty occupations	15,856	15,936	15,551	15,638
All managerial and professional specialty occupations	14,451	15,799	14,721	14,982
Licensed practical nurses	12,233	13,256	11,964	12,163
Engineers and science technicians	12,190	14,927	13,148	13,332
All technicians and related support occupations	13,462	13,488	12,751	12,896
Sales representatives, finance and business services	10,550	12,789	12,099	12,125
Sales workers, retail and personal services	9,519	8,774	8,617	8,626
All sales occupations	10,071	9,667	9,623	9,619
Supervisors, administrative support occupations	11,750	16,002	13,853	14,161
Secretaries	10,786	12,178	11,223	11,274
Bookkeepers, accounting, and auditing clerks	11,294	12,220	10,931	10,986
Mail and message distributing occupations	15,329	16,317	15,628	15,825
Traffic, shipping, stock and inventory clerks	10,700	12,857	11,023	11,245
Bank tellers	8,754	9,907	8,717	8,797
Data-entry keyers	12,551	11,880	11,128	11,272
All administrative support occupations, including clerical	10,679	12,469	11,060	11,200
All technical, sales, and administrative support occupations	10,761	12,397	11,004	11,143
Police and detectives, public service	20,053	20,728	18,684	20,211
Guards	6,500	12,226	10,638	10,990
Waiters and food counter workers	3,886	6,405	6,153	6,151
Cooks	6,744	8,668	7,466	7,619
Nursing aides, orderlies and attendants	9,039	9,245	8,640	8,851
Cleaning and building service occupations, excluding household	9,814	9,271	9,217	9,237
Barbers, hairdressers, and cosmetologists	13,086	9,022	8,869	8,880
All service occupations	8,598	9,114	8,142	8,337

TABLE VI-15. MEDIAN EARNINGS OF MICHIGAN WOMEN WHO WORKED YEAR-ROUND, FULL-TIME, TOTAL, SPANISH ORIGIN, AND BY WHITE-BLACK RACIAL DESIGNATION: CENSUS 1980 (cont.)

	Earnings[a]			
Occupation groups and selected occupations	Spanish origin	Black	White	Total
Supervisors manufacturing production occupations	$21,487	21,417	15,899	16,489
All precision production, craft, and repair occupations	12,628	14,076	12,293	12,477
Metalworking and plastic working machine operators	14,851	14,503	11,625	11,977
Textile sewing machine operators	13,705	14,907	12,145	12,522
Welders and cutters	10,200	15,426	12,209	12,849
Assemblers	15,450	15,548	12,354	13,054
Truck drivers and driver-sales workers	13,267	13,986	12,505	12,599
Material moving equipment operators	18,424	16,715	12,630	13,235
Freight, stock and material handlers	12,611	15,000	10,087	10,413
Hand packers and packagers	9,381	11,712	10,613	10,716
Laborers, except construction	12,653	12,969	10,694	11,023
All operators, fabricators, and laborers	12,703	14,381	11,295	11,636
TOTAL	11,163	12,521	11,297	11,442

SOURCE: Bureau of the Census, 1980 Census of Population Detailed Population Characteristics, Michigan (Washington, D.C.: 1983), PC80-1-D24, Tables 221 and 222.

a. Median 1979 earnings among women who worked year-round, full-time.

TABLE VI-16. MEDIAN EARNINGS OF MICHIGAN MEN WHO WORKED YEAR-ROUND, FULL-TIME, TOTAL, SPANISH ORIGIN, AND BY WHITE-BLACK RACIAL DESIGNATION: CENSUS 1980

Occupation groups and selected occupations	Earnings[a]			
	Spanish origin	Black	White	Total
Salaried managers, manufacturing	$31,595	$27,689	$32,882	$32,771
Accountants and auditors	20,644	20,867	23,635	23,440
All executive administrative, and managerial occupations	21,863	21,133	25,343	25,133
Mechanical engineers	30,024	26,748	30,682	30,571
All engineers	28,082	25,329	28,285	28,165
Physicians	68,379	38,972	56,761	55,866
Teachers, librarians, and counsellors	21,831	20,083	20,675	20,678
Writers, artists, entertainers and athletes	18,906	17,992	21,747	21,551
All professional specialty occupations	25,652	21,128	24,946	24,851
All managerial and professional specialty occupations	23,712	21,131	25,164	25,019
Engineering and science techicians	20,521	20,076	21,390	21,354
Drafting and surveying	21,899	17,492	20,825	20,764
All technicians and related support occupations	20,188	18,759	20,842	20,776
Sales representatives, finance and business services	20,000	15,318	21,960	21,703
Sales workers, retail and personal services	15,584	13,134	16,180	16,065
All sales occupations	17,680	15,699	19,832	19,635
Supervisors, administrative support occupations	23,704	22,204	23,287	23,182
Mail and message distribution occupations	17,102	17,469	17,370	17,378
Traffic, shipping, stock, and inventory clerks	16,715	17,123	16,926	16,922
All administrative support occupations	17,912	17,402	19,306	19,073
All technical, sales and administrative support occupations	18,180	17,194	19,885	19,670
Police and detectives, public service	20,724	21,911	21,489	21,531
Guards	15,867	15,414	17,384	16,963
Cooks	8,333	10,188	9,323	9,308
Nursing, aids, orderlies, and attendants	13,022	12,328	12,464	12,442
Cleaning and building service occupations	13,029	13,642	13,556	13,550
Barbers, hairdressers and cosmetologists	15,473	9,125	13,796	13,428
All service occupations	13,743	14,663	15,570	15,387
All farming, forestry, and fishing occupations	8,850	12,208	10,677	10,662
Automobile mechanics and body repairers	16,098	17,610	16,831	16,858
Carpenters	16,242	16,559	16,555	16,532
Electricians	21,165	24,282	23,478	23,505
Painters	15,495	15,574	16,946	16,808
Plumbers, pipefitters and steamfitters	20,332	24,174	22,908	22,931

TABLE VI-16. MEDIAN EARNINGS OF MICHIGAN MEN WHO WORKED YEAR-ROUND, FULL-TIME, TOTAL, SPANISH ORIGIN, AND BY WHITE-BLACK RACIAL DESIGNATION: CENSUS 1980 (cont.)

	Earnings[a]			
Occupation groups and selected occupations	Spanish origin	Black	White	Total
Supervisors, manufacturing production occupations	$23,734	$26,160	$25,232	$25,295
Tool and die makers	23,988	23,230	24,317	24,265
Machinists	15,622	20,646	18,586	18,614
All precision production craft, and repair occupations	20,784	21,472	21,376	21,364
Metal working and plastic working machine operators	17,863	18,725	19,394	19,271
Welders and cutters	19,535	17,588	19,048	18,756
Assemblers	17,091	17,297	17,951	17,791
Truck drivers and driver sales workers	19,323	18,241	19,165	19,052
Material moving equipment operators	19,116	17,845	18,605	18,460
Construction laborers	13,352	16,637	15,656	15,729
Freight, stock, and material handlers	15,354	16,749	15,584	15,683
Non-construction laborers	15,574	16,736	15,949	16,046
All operators, fabricators and laborers	17,259	17,601	18,119	18,023
TOTAL	18,288	18,158	20,494	20,345

SOURCE: Bureau of the Census, 1980 Census of Population Detailed Population Characteristics, Michigan (Washington, D.C.: 1983), PC80-1-D24, Tables 221 and 222.

a. Median 1979 earnings among men who worked year-round, full-time.

TABLE VI-17. PER CAPITA MONEY INCOME IN MICHIGAN BY COUNTY: 1979 AND 1981

County	1979	1981	County	1979	1981
Alcona	5,111	6,030	Lake	4,640	5,249
Alger	5,470	6,253	Lapeer	7,089	7,657
Allegan	6,744	7,582	Leelanau	6,815	7,533
Alpena	5,887	6,574	Lenawee	6,957	7,777
Antrim	5,884	6,705	Livingston	8,323	9,059
Arenac	5,497	6,277	Luce	5,301	6,056
Baraga	5,186	5,615	Mackinac	5,274	6,133
Barry	6,965	7,781	Macomb	8,655	9,532
Bay	7,182	8,143	Manistee	6,182	7,136
Benzie	5,632	6,318	Marquette	6,187	7,092
Berrien	6,723	7,684	Mason	6,192	7,009
Branch	6,449	7,182	Mecosta	5,230	6,051
Calhoun	7,211	8,343	Menominee	5,585	6,350
Cass	6,481	7,212	Midland	8,052	9,376
Charlevoix	6,005	6,662	Missaukee	5,151	5,926
Cheboygan	5,449	6,120	Monroe	7,356	8,312
Chippewa	5,346	6,226	Montcalm	5,905	6,735
Clare	5,298	6,004	Montmorency	4,838	5,645
Clinton	7,362	8,353	Muskegon	6,358	7,269
Crawford	5,621	6,672	Newaygo	5,696	6,470
Delta	5,894	6,978	Oakland	10,657	11,697
Dickinson	6,257	6,949	Oceana	5,627	6,288
Eaton	8,076	9,186	Ogemaw	5,001	5,699
Emmet	6,389	7,160	Ontonagon	5,599	6,817
Genesee	7,951	8,964	Osceola	5,252	6,088
Gladwin	5,499	6,380	Oscoda	5,653	5,109
Gogebic	5,184	6,113	Ostego	5,933	6,694
Grand Traverse	6,930	7,788	Ottawa	7,198	8,146
Gratiot	6,042	6,772	Presque Isle	5,522	6,218
Hillsdale	6,121	6,839	Roscommon	5,411	6,324
Houghton	4,970	5,725	Saginaw	7,263	8,103
Huron	5,753	6,440	St. Clair	7,080	8,002
Ingham	7,509	8,563	St. Joseph	6,473	7,446
Ionia	6,100	6,905	Sanilac	5,932	6,541
Iosco	5,367	6,241	Schoolcraft	5,283	6,262
Iron	5,586	6,242	Shiawassee	6,948	7,799
Isabella	5,591	6,531	Tuscola	6,500	7,148
Jackson	7,003	7,949	Van Buren	6,108	6,884
Kalamazoo	7,769	8,991	Washtenaw	8,703	9,803
Kalkaska	5,576	6,391	Wayne	7,608	8,548
Kent	7,522	8,567	Wexford	5,874	6,636
Keweenaw	4,782	5,513	MICHIGAN	7,688	8,627

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

TABLE VI-18. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1981

Place	Income		Place	Income	
	1979	1981		1979	1981
Addison	6,833	7,364	Big Rapids	4,576	5,269
Adrian	6,549	7,493	Bingham Farms	23,791	25,634
Ahmeek	4,406	5,181	Birch Run	7,363	7,978
Akron	5,451	6,248	Birmingham	14,608	15,926
Alanson	4,927	5,848	Blissfield	7,275	8,308
Albion	5,371	6,038	Bloomfield Hills	35,129	37,808
Algonac	6,914	7,606	Bloomingdale	5,547	5,767
Allegan	6,863	7,923	Boyne City	5,751	6,689
Allen	5,983	6,918	Boyne Falls	5,463	5,788
Allen Park	10,163	11,360	Breckenridge	6,332	7,463
Alma	5,936	6,762	Breedsville	5,060	5,895
Almont	7,193	7,596	Bridgman	7,078	8,211
Alpena	6,288	7,042	Brighton	8,688	9,484
Alpha	4,938	5,588	Britton	6,908	6,784
Ann Arbor	8,729	10,009	Bronson	5,737	6,576
Applegate	4,998	5,598	Brooklyn	7,179	7,894
Armada	7,738	8,180	Brown City	5,766	6,153
Ashley	5,472	6,153	Buchanan	6,316	7,164
Athens	6,611	7,444	Buckley	4,385	4,991
Au Gres	5,927	7,287	Burlington	4,661	5,235
Auburn	7,841	9,253	Burr Oak	5,593	6,088
Augusta	6,935	7,643	Burton	7,742	8,738
Bad Axe	6,590	7,086	Byron	6,055	7,177
Bladwin	4,753	5,619	Cadillac	6,005	6,828
Bancroft	5,776	6,366	Caledonia	7,201	8,002
Bangor	4,834	5,782	Calumet	5,106	6,005
Baraga	5,032	5,064	Camden	5,423	6,588
Baroda	6,726	7,557	Capac	6,648	7,296
Barryton	5,287	5,843	Carleton	7,169	7,573
Barton Hills	33,481	37,094	Carney	4,232	4,699
Battle Creek	7,504	8,754	Caro	7,018	8,000
Bay City	6,818	7,818	Carson City	6,734	7,982
Bear Lake	5,414	6,292	Carsonville	5,741	6,295
Beaverton	5,719	6,548	Caseville	4,994	5,824
Belding	5,706	6,459	Casnovia	5,591	6,227
Bellaire	5,490	6,495	Caspian	5,097	6,015
Belleville	10,329	11,482	Cass City	7,584	8,189
Bellevue	6,823	7,768	Cassopolis	5,099	5,734
Benton Harbor	3,766	4,478	Cedar Springs	5,415	6,021
Benzonia	5,598	6,895	Cement City	5,122	5,520
Berkley	8,472	9,586	Center Line	7,881	8,686
Berrien Springs	6,612	7,408	Central Lake	4,782	5,806
Bessemer	5,473	6,414	Centreville	6,176	7,255
Beulah	6,285	7,309	Charlevoix	7,238	7,976
Beverly Hills	16,015	17,834	Charlotte	6,721	7,704

TABLE VI-18. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1981 (cont.)

	Income			Income	
Place	1979	1981	Place	1979	1981
Chatham	4,628	5,365	Eagle	6,467	7,323
Cheboygan	5,572	6,013	East Detroit	8,342	9,376
Chelsea	8,481	9,537	East Grand Rapids	13,963	15,722
Chesaning	7,037	7,776	East Jordan	4,933	5,485
Clare	6,271	7,097	East Lake	6,485	7,573
Clarkson	12,073	13,187	East Lansing	6,305	7,162
Clarksville	6,221	6,595	East Tawas	6,150	6,985
Clawson	8,827	9,886	Eaton Rapids	7,394	8,329
Clayton	4,984	5,492	Eau Claire	5,682	5,200
Clifford	4,970	5,154	Ecorse	6,826	7,412
Climax	6,647	7,350	Edmore	5,896	6,677
Clinton	7,796	8,983	Edwardsburg	6,477	7,012
Clio	7,210	8,109	Elberta	4,782	5,015
Coldwater	6,907	7,835	Elk Rapids	6,842	7,577
Coleman	5,426	6,406	Elkton	5,563	6,482
Coloma	6,893	7,801	Ells Worth	4,971	5,559
Colon	6,152	7,183	Elsie	6,973	8,080
Columbiaville	6,278	6,774	Emmett	5,277	5,939
Concord	6,369	6,891	Empire	6,328	7,468
Constantine	5,791	6,765	Escanaba	6,396	7,550
Coopersville	6,721	7,173	Essexville	7,666	8,684
Copemish	3,408	4,056	Estral Beach	6,761	7,622
Copper City	3,849	4,621	Evart	5,320	6,139
Corunna	6,519	7,269	Fairgrove	6,944	8,074
Croswell	5,592	6,248	Farmington	11,578	12,757
Crystal Falls	5,443	6,042	Farmington Hills	12,632	13,775
Custer	4,393	5,020	Farwell	5,253	5,692
Daggett	5,108	5,342	Fennville	5,196	5,976
Dansville	6,848	7,033	Fenton	7,787	8,723
Davison	8,276	9,317	Ferndale	7,787	8,723
De Tour	5,038	5,869	Ferrysburg	8,178	9,052
De Witt	8,068	8,831	Fife Lake	4,477	5,240
Dearborn	9,852	10,930	Flat Rock	8,054	8,639
Dearborn Heights	9,488	10,532	Flint	7,093	8,105
Decatur	5,114	5,772	Flushing	9,513	10,760
Deckerville	5,812	6,632	Forestville	5,867	6,765
Deerfield	7,054	8,126	Fountain	4,485	5,116
Detroit	6,214	7,090	Fowler	6,711	7,595
Dexter	8,267	9,255	Fowlerville	6,280	6,838
Dimondale	8,150	9,249	Frankenmuth	10,018	10,949
Douglas	6,887	8,327	Frankfort	6,339	6,968
Dowagiac	5,344	6,169	Franklin	25,406	26,708
Dryden	6,605	7,141	Fraser	7,962	8,756
Dundee	7,803	8,906	Free Soil	6,389	7,507
Durand	6,726	7,789	Freeport	5,911	6,665

TABLE VI-18. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1981 (cont.)

Place	Income		Place	Income	
	1979	1981		1979	1981
Fremont	7,037	7,855	Highland Park	5,494	6,327
Fruitport	7,363	8,338	Hillman	5,753	6,794
Gaastra	4,919	5,193	Hillsdale	6,031	6,896
Gagetown	5,194	5,760	Holland	7,313	8,343
Gaines	5,847	6,503	Holly	7,204	7,935
Galesburg	6,224	7,121	Homer	5,828	6,254
Galien	5,961	6,564	Honor	4,110	4,991
Garden	4,953	5,809	Hopkins	6,389	7,127
Garden City	8,310	9,217	Houghton	4,330	4,827
Gaylord	5,733	6,381	Howard City	5,090	5,602
Gibraltar	9,740	10,706	Howell	8,006	8,821
Gladstone	6,028	7,215	Hubbardston	5,502	6,746
Gladwin	5,784	6,474	Hudson	6,149	6,991
Gobles	6,154	6,923	Hudsonville	7,336	8,346
Goodrich	8,393	9,392	Huntington Woods	15,419	16,984
Grand Beach	8,914	10,215	Imlay City	6,718	7,343
Grand Blanc	11,651	12,879	Inkster	6,736	7,572
Grand Haven	7,353	8,363	Ionia	6,909	7,983
Grand Ledge	7,600	8,664	Iron Mountain	6,629	7,406
Grand Rapids	6,691	7,746	Iron River	5,914	6,451
Grandville	8,222	9,097	Ironwood	5,275	6,311
Grant	5,885	6,695	Ishpeming	6,850	7,986
Grass Lake	8,007	8,529	Ithaca	5,926	6,553
Grayling	5,010	5,953	Jackson	6,469	7,533
Greenville	6,635	7,487	Jonesville	7,009	7,721
Grosse Pointe	16,533	18,308	Kalamzaoo	6,945	8,129
Grosse Pte Farms	21,685	24,029	Kaleva	6,648	7,321
Grosse Pte Park	12,992	14,808	Kalkaska	5,603	6,246
Grosse Pte Shores	27,860	30,702	Keego Harbor	8,687	9,339
Grosse Pte Woods	13,808	15,358	Kent City	5,727	6,435
Hamtramck	6,399	7,262	Kentwood	8,145	9,200
Hancock	5,487	6,451	Kinde	5,260	5,886
Hanover	6,620	7,317	Kingsford	5,980	6,614
Harbor Beach	5,920	6,539	Kingsley	5,480	6,147
Harbor Springs	6,529	7,4[illegible]3	Kingston	7,357	7,761
Harper Woods	9,392	10,750	Laingsburg	6,148	7,105
Harrietta	6,151	7,109	Lake Angelus	17,301	18,313
Harrison	5,891	6,829	Lake Ann	6,335	6,806
Harrisville	5,911	6,425	Lake City	8,394	9,565
Hart	6,445	7,279	Lake Linden	4,980	5,698
Hartford	5,305	5,935	Lake Odessa	6,516	7,345
Hastings	7,272	8,109	Lake Orion	8,830	9,841
Hazel Park	6,821	7,489	Lakeview	5,472	5,962
Hersey	4,979	5,758	Lakewood Club	4,379	4,970
Hesperia	5,650	6,405	Lanse	5,360	5,822

TABLE VI-18. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1981 (cont.)

	Income			Income	
Place	1979	1981	Place	1979	1981
Lansing	7,280	8,417	Melvin	5,758	6,229
Lapeer	6,533	7,366	Melvindale	8,229	8,935
Lathrup Village	14,693	16,346	Memphis	6,294	6,938
Laurium	5,239	6,124	Mendon	6,094	7,313
Lawrence	5,540	5,995	Menominee	6,437	7,472
Lawton	5,745	6,520	Merrill	6,390	7,321
Le Roy	5,074	6,041	Mesick	5,327	6,315
Lennon	7,728	8,458	Metamora	6,372	6,902
Leonard	6,530	7,038	Michiana	9,221	10,214
Leslie	6,271	6,999	Middleville	6,542	7,332
Lexington	6,557	7,501	Midland	9,549	11,189
Lincoln	6,723	8,069	Milan	8,083	8,920
Lincoln Park	8,277	9,016	Milford	8,364	9,238
Linden	7,966	8,671	Millersburg	3,969	4,541
Litchfield	6,453	7,371	Millington	6,425	7,186
Livonia	9,969	11,085	Minden City	6,532	7,473
Lowell	6,420	7,528	Mineral Hills	4,764	5,455
Ludington	6,511	7,460	Monroe	7,350	8,486
Luna Pier	6,027	6,939	Montague	7,152	7,939
Luther	3,896	4,460	Montgomery	5,735	6,013
Lyons	6,263	7,267	Montrose	7,262	7,988
Mackinac Island	5,872	6,787	Morenci	6,259	7,052
Mackinac City	5,640	6,666	Morley	5,164	6,084
Madison Heights	8,326	9,165	Morrice	5,649	6,245
Mancelona	5,108	6,021	Mount Clemens	7,513	8,413
Manchester	8,337	9,264	Mount Morris	7,371	8,360
Manistee	6,441	7,541	Mount Pleasant	5,221	6,086
Manistique	5,636	6,532	Muir	5,524	6,033
Manton	4,399	4,810	Mulliken	6,851	7,660
Maple Rapids	5,766	6,820	Munising	6,498	7,437
Marcellus	5,738	6,112	Muskegon	5,507	6,393
Marine City	6,233	7,095	Muskegon Heights	4,583	5,361
Marion	4,957	5,690	Nashville	5,812	6,772
Marlette	6,862	7,122	Negaunee	6,826	7,850
Marquette	5,932	6,816	New Baltimore	8,359	9,194
Marshall	7,244	8,253	New Buffalo	6,730	7,623
Martin	6,202	7,041	New Era	6,467	7,611
Marysville	8,473	9,553	New Haven	5,544	6,186
Mason	7,540	8,525	New Lothrop	6,901	7,553
Mattawan	6,380	7,355	Newaygo	6,183	6,891
Maybee	5,660	6,723	Newberry	5,781	6,467
Mayville	7,264	7,348	Niles	6,922	7,840
McBain	4,832	5,505	North Adams	5,654	6,403
McBride	5,849	6,571	North Branch	6,883	7,603
Mecosta	4,533	5,415	North Muskegon	10,131	11,732

TABLE VI-18. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1981 (cont.)

Place	Income		Place	Income	
	1979	1981		1979	1981
Northport	6,439	7,126	Portage	8,733	10,190
Northville	10,807	11,891	Portland	6,719	7,738
Norton Shores	8,211	9,308	Posen	3,009	3,678
Norway	6,015	6,876	Potterville	6,790	7,453
Novi	10,585	11,821	Powers	3,804	4,768
Oak Park	8,773	9,715	Prescott	5,120	5,615
Oakley	5,240	5,829	Quincy	6,043	6,861
Olivet	5,173	5,748	Ravenna	6,324	7,266
Omer	5,750	6,319	Reading	5,495	5,868
Onaway	5,069	6,108	Reed City	5,751	6,230
Onekama	7,383	8,962	Reese	7,598	8,428
Onsted	5,479	5,972	Richland	9,126	10,583
Ontonagon	6,179	7,511	Richmond	7,126	7,545
Orchard Lake	18,621	20,077	River Rouge	6,404	6,889
Ortonville	6,865	7,488	Riverview	9,540	10,463
Otisville	5,729	6,452	Rochester	10,148	11,133
Otsego	6,222	7,019	Rockford	7,397	8,413
Otter Lake	6,592	6,895	Rockwood	7,919	8,773
Ovid	5,801	6,584	Rogers City	7,029	7,872
Owendale	4,970	5,365	Romeo	9,280	9,919
Owosso	6,914	7,831	Romulus	6,892	7,395
Oxford	8,424	9,312	Roosevelt Park	8,017	9,261
Parchment	8,498	9,749	Roscommon	5,805	6,399
Parma	7,503	8,631	Rose City	3,668	4,258
Paw Paw	7,131	8,170	Rosebush	5,591	6,344
Peck	5,634	6,017	Roseville	7,539	8,248
Pellston	4,605	5,326	Rothbury	5,214	6,158
Pentwater	6,968	7,969	Royal Oak	9,766	11,052
Perrinton	6,208	7,059	Saginaw	6,101	6,908
Perry	6,221	7,044	Saline	8,635	9,800
Petersburg	6,662	7,595	Sand Lake	5,687	6,373
Petoskey	7,069	8,038	Sandusky	6,289	6,942
Pewamo	6,771	7,546	Sanford	6,702	7,535
Pierson	4,148	4,713	Saranac	5,688	6,514
Pigeon	6,410	7,267	Saugatuck	9,031	9,968
Pinckney	6,680	7,353	Sault Sainte Marie	5,658	6,749
Pinconning	6,161	7,045	Schoolcraft	7,312	8,284
Plainwell	7,369	8,132	Scottville	6,106	6,788
Pleasant Ridge	10,604	11,810	Sebewaing	5,995	7,133
Plymouth	9,641	10,741	Shelby	6,118	6,831
Pontiac	6,252	6,799	Shepherd	6,217	7,159
Port Austin	5,313	6,223	Sheridan	6,358	7,143
Port Hope	5,479	6,476	Sherwood	4,836	5,157
Port Huron	6,735	7,800	Shoreham	10,741	12,038
Port Sanilac	6,682	7,987	South Haven	6,571	7,573

TABLE VI-18. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1981 (cont.)

	Income			Income	
Place	1979	1981	Place	1979	1981
South Lyon	8,075	9,000	Twining	4,647	5,476
South Range	4,963	5,914	Ubly	6,055	6,218
South Rockwood	7,550	8,096	Union City	5,966	6,496
Southfield	12,668	13,864	Unionville	6,400	7,445
Southgate	8,978	9,747	Utica	8,099	8,952
Sparta	7,199	8,061	Vandalia	4,[illegible]78	5,557
Spring Lake	7,586	8,718	Vanderbilt	4,701	5,501
Springfield	7,330	8,674	Vassar	6,708	7,349
Springport	6,226	6,800	Vermontville	6,244	6,812
St. Charles	6,610	7,586	Vernon	6,229	6,544
St. Clair	8,731	9,956	Vicksburg	6,011	6,991
St. Clair Shores	9,191	10,258	Wakefield	4,543	5,266
St. Ignace	5,571	6,463	Waldron	6,134	7,126
St. Johns	7,420	8,369	Walker	7,625	8,698
St. Joseph	9,257	10,873	Walkerville	4,633	5,108
St. Louis	6,049	6,877	Walled Lake	7,930	8,718
Stambaugh	5,963	6,416	Warren	8.690	9,690
Standish	6,875	7,520	Watervliet	[illegible],319	7,171
Stanton	5,658	6,639	Wayland	6,367	7,253
Stanwood	5,416	6,478	Wayne	7,768	8,740
Stephenson	5,106	5,774	Webberville	6,311	6,772
Sterling	5,629	6,035	West Branch	6,237	7,457
Sterling Heights	8,996	9,792	Westland	8,308	9,231
Stevensville	8,160	9,271	Westphalia	6,296	7,067
Stockbridge	7,853	8,749	White Cloud	5,508	6,179
Sturgis	6,900	7,962	White Pigeon	5,920	6,994
Sunfield	5,826	6,927	Whitehall	6,895	8,168
Suttons Bay	6,397	7,314	Whittemore	4,685	5,156
Swartz Creek	8,723	9,694	Williamston	7,502	8,805
Sylvan Lake	11,105	12,393	Wixom	10,065	11,036
Tawas City	5,816	6,8[illegible]3	Wolverine	4,432	5,048
Taylor	7,413	8,127	Wolverine Lake	9,920	10,813
Tecumseh	7,838	8,682	Woodhaven	8,783	9,496
Tekonsha	6,223	7,449	Woodland	5,670	6,332
Thompsonville	3,988	4,540	Wyandotte	7,957	8,668
Three Oaks	6,402	7,144	Wyoming	7,452	8,436
Three Rivers	6,096	7,127	Yale	6,416	7,310
Traverse City	7,032	7,882	Ypsilanti	6,448	7,336
Trenton	9,677	10,623	Zeeland	7,236	8,134
Troy	11,642	12,742	Zilwaukee	7,131	7,930
Turner	4,487	5,008			
Tustin	5,380	6,708	MICHIGAN	7,688	8,627

SOURCE: U.S. Department of Commerce, Bureau of the Census, Local Population Estimates--Michigan, (Washington, D.C.: September 1984), Series P-26, No. 82-22-SC, Table 1.

TABLE VI-19. PERCENTAGE OF MICHIGAN PERSONS LIVING IN HOUSEHOLDS WITH INCOME BELOW THE POVERTY LEVEL, BY COUNTY: CENSUS 1970 AND 1980

	Percentage[a]			Percentage[a]	
County	1970	1980	County	1970	1980
Alcona	25.4	16.5	Lake	34.1	24.3
Alger	17.4	12.9	Lapeer	10.3	7.1
Allegan	14.6	8.5	Leelanau	11.8	8.3
Alpena	16.1	10.6	Lenawee	11.2	8.5
Antrim	17.3	10.9	Livingston	7.7	4.8
Arenac	18.2	15.3	Luce	13.0	12.6
Baraga	17.5	12.0	Mackinac	17.8	13.0
Barry	13.4	8.7	Macomb	5.4	4.6
Bay	11.4	9.4	Manistee	19.1	10.7
Benzie	14.0	12.3	Marquette	14.1	9.8
Berrien	14.5	13.5	Mason	14.4	12.1
Branch	15.0	10.7	Mecosta	20.0	18.2
Calhoun	12.4	10.6	Menominee	18.1	9.8
Cass	12.9	11.0	Midland	8.1	8.0
Charlevoix	16.7	11.1	Missaukee	25.1	14.3
Cheboygan	18.9	14.8	Monroe	8.9	7.3
Chippewa	20.2	14.6	Montcalm	16.6	12.0
Clare	21.1	16.0	Montmorency	28.5	20.2
Clinton	7.6	5.7	Muskegon	12.2	12.3
Crawford	17.7	14.0	Newaygo	18.3	13.6
Delta	16.9	11.6	Oakland	6.0	5.3
Dickinson	18.0	8.7	Oceana	22.5	13.3
Eaton	8.3	5.9	Ogemaw	24.5	18.4
Emmet	17.0	10.2	Ontonagon	16.6	12.6
Genesee	9.9	10.6	Osceola	17.9	14.1
Gladwin	15.6	14.7	Oscoda	25.0	15.4
Gogebic	24.1	12.1	Otsego	13.5	9.4
Grand Traverse	11.8	8.3	Ottawa	8.0	6.0
Gratiot	14.0	11.7	Presque Isle	23.3	16.5
Hillsdale	14.6	10.8	Roscommon	22.0	12.9
Houghton	28.6	17.0	Saginaw	11.3	11.7
Huron	18.5	12.4	St. Clair	14.1	9.7
Ingham	11.3	13.2	St. Joseph	13.7	9.7
Ionia	13.5	9.2	Sanilac	19.1	11.6
Iosco	13.2	11.8	Schoolcraft	21.5	13.8
Iron	20.9	11.9	Shiawassee	11.1	7.9
Isabella	20.7	18.9	Tuscola	13.9	9.7
Jackson	11.0	9.3	Van Buren	16.7	13.5
Kalamazoo	10.6	10.7	Washtenaw	10.5	11.0
Kalkaska	27.1	14.4	Wayne	12.3	14.3
Kent	11.1	8.7	Wexford	18.6	12.4
Keweenaw	27.6	13.2	MICHIGAN	9.4	10.4

SOURCE: Bureau of the Census, special release.

a. Based on 1969 and 1979 incomes.

TABLE VI-20. MICHIGAN INCOME AMONG HOUSEHOLDS, FAMILIES AND UNRELATED INDIVIDUALS IN MICHIGAN, BY COUNTY: CENSUS 1980

County	Median household income	Median family income	Median income of unrelated individuals	County	Median household income	Median family income	Median income of unrelated individuals
Alcona	$10,730	$12,301	$ 4,873	Lake	$ 9,134	$11,210	$ 3,998
Alger	14,224	16,354	4,873	Lapeer	21,403	22,984	7,829
Allegan	17,906	20,162	7,291	Leelanau	15,938	17,975	6,898
Alpena	15,166	17,228	4,987	Lenawee	18,537	20,825	6,096
Antrim	14,026	16,174	5,487	Livingston	24,544	26,339	10,091
Arenac	13,184	15,016	5,407	Luce	13,261	15,327	5,481
Baraga	12,007	15,598	4,930	Mackinac	12,454	14,985	5,341
Barry	18,684	20,651	6,776	Macomb	24,222	26,666	10,877
Bay	19,043	22,034	6,572	Manistee	14,351	17,281	5,619
Benzie	13,410	15,435	5,365	Marquette	16,517	19,492	4,718
Berrien	16,274	19,166	6,588	Mason	14,410	16,824	6,020
Branch	16,150	18,535	7,393	Mecosta	13,081	16,023	3,091
Calhoun	17,603	20,789	6,683	Menominee	14,195	16,380	5,372
Cass	16,488	18,548	6,529	Midland	21,527	23,598	6,569
Charlevoix	14,028	16,896	5,610	Missaukee	12,321	13,953	5,242
Cheboygan	13,012	15,203	5,380	Monroe	21,356	23,281	7,889
Chippewa	12,499	14,987	4,110	Montcalm	14,792	16,942	5,771
Clare	11,349	13,231	5,121	Montmorency	10,254	11,995	4,526
Clinton	21,573	23,368	8,505	Muskegon	16,167	18,716	6,669
Crawford	11,832	14,184	5,100	Newaygo	14,082	16,468	5,127
Delta	15,076	17,668	5,223	Oakland	25,325	28,807	11,642
Dickinson	14,293	17,094	5,191	Oceana	14,157	16,334	5,397
Eaton	21,778	24,574	8,957	Ogemaw	10,506	12,270	4,863
Emmet	15,099	18,384	5,881	Ontonagon	13,153	15,984	5,493
Genesee	20,996	23,717	9,078	Osceola	12,970	14,937	5,306
Gladwin	12,255	14,678	5,056	Oscoda	11,175	12,922	5,141
Gogebic	10,973	13,683	4,726	Otsego	15,341	16,941	7,303
Gd. Traverse	16,686	19,325	6,296	Ottawa	20,232	22,059	5,774
Gratiot	15,796	18,334	4,558	Presque Isle	12,491	15,244	4,594
Hillsdale	15,399	17,512	5,032	Roscommon	10,865	12,474	4,683
Houghton	11,456	14,398	3,340	Saginaw	19,726	22,126	7,840
Huron	13,860	16,397	5,946	St. Clair	18,476	21,119	6,887
Ingham	18,090	21,921	4,440	St. Joseph	16,091	18,609	7,493
Ionia	17,439	20,037	6,395	Sanilac	14,590	16,629	5,913
Iosco	11,724	13,649	5,994	Schoolcraft	12,450	14,670	4,643
Iron	11,331	14,532	4,462	Shiawassee	19,722	21,737	7,721
Isabella	15,002	18,318	2,831	Tuscola	18,332	20,583	7,044
Jackson	18,530	21,364	7,104	Van Buren	15,397	17,700	5,963
Kalamazoo	18,634	22,211	5,705	Washtenaw	20,969	25,465	5,331
Kalkaska	13,714	15,691	5,345	Wayne	18,629	22,134	7,774
Kent	18,554	21,530	7,403	Wexford	13,394	15,884	5,705
Keweenaw	9,076	11,705	4,233	MICHIGAN	19,224	22,108	6,979

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF3, computer
NOTE: Income data pertains to the year 1979.
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TABLE VI-21. MEDIAN FAMILY INCOME IN MICHIGAN COUNTIES: CENSUS 1970 AND 1980

County	Income[a] 1970	Income[a] 1980	County	Income[a] 1970	Income[a] 1980
Alcona	$ 5,842	$12,301	Lake	$ 6,000	$11,210
Alger	8,014	16,354	Lapeer	10,388	22,984
Allegan	9,309	20,162	Leelanau	8,278	17,975
Alpena	8,765	17,228	Lenawee	10,027	20,825
Antrim	8,043	16,174	Livingston	11,551	26,339
Arenac	8,320	15,016	Luce	8,974	15,327
Baraga	8,045	15,598	Mackinac	7,273	14,985
Barry	9,704	20,651	Macomb	13,110	26,666
Bay	10,408	22,034	Manistee	8,365	17,281
Benzie	7,760	15,435	Marquette	8,562	19,492
Barrien	10,056	19,166	Mason	8,476	16,824
Branch	9,325	18,535	Mecosta	7,902	16,023
Calhoun	10,789	20,789	Menominee	7,703	16,380
Cass	9,781	18,548	Midland	11,618	23,598
Charlevoix	8,535	16,896	Missaukee	6,820	13,953
Cheybogan	7,660	15,203	Monroe	11,398	23,281
Chippewa	7,131	14,987	Montcalm	8,526	16,942
Clare	7,547	13,231	Montmorency	5,851	11,995
Clinton	11,014	23,368	Muskegon	9,757	18,716
Crawford	7,930	14,154	Newaygo	8,121	16,468
Delta	8,779	17,668	Oakland	13,826	28,[illegible]07
Dickinson	8,316	17,094	Oceana	8,000	16,334
Eaton	11,423	24,574	Ogemaw	6,545	12,270
Emmet	8,610	18,384	Ontonagon	8,421	15,984
Genesee	11,255	23,717	Osceola	7,961	14,937
Gladwin	8,157	14,678	Oscoda	6,411	12,922
Gogebic	7,236	13,683	Otsego	9,413	16,941
Grand Traverse	9,542	19,325	Ottawa	10,445	22,059
Gratiot	8,891	18,334	Presque Isle	7,889	15,244
Hillsdale	8,895	17,512	Roscommon	6,895	12,474
Houghton	6,300	14,398	Saginaw	10,878	22,126
Huron	7,785	16,397	St. Clair	10,125	21,119
Ingham	11,193	21,921	St. Joseph	9,686	18,609
Ionia	9,578	20,037	Sanilac	8,583	16,629
Iosco	7,165	13,649	Schoolcraft	7,692	14,670
Iron	7,443	14,532	Shiawassee	10,540	21,737
Isabella	9,207	18,318	Tuscola	9,558	20,583
Jackson	10,726	21,364	Van Buren	8,735	17,700
Kalamazoo	11,037	22,211	Washtenaw	12,294	25,465
Kalkaska	6,686	15,691	Wayne	11,351	22,134
Kent	10,692	21,530	Wexford	8,024	15,884
Keweenaw	4,809	11,705	MICHIGAN	11,032	22,108

SOURCE: Bureau of the Census, special release.

a. Figures pertain to incomes received during 1969 and 1979.

VII. SOCIAL WELFARE

The Michigan Department of Social Services, charged with the responsibility for administering the state's public welfare and related programs, conducts research and functions as the repository of relevant data. Published sources include the Annual Report and the monthly publication, Social Services Statistics.

Information related to other social welfare programs is available from annual reports of the various agencies that administer them, for example, the Social Security Administration, the Veterans Administration, and the Railroad Retirement Board.

Data for Tables VII-1 and VII-2 were drawn from the tabulation released by the Bureau of Economic Analysis in conjunction with its personal income statistics program. A more complete statement of those data is included at the beginning of chapter VI.

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TABLE VII-1. TRANSFER PAYMENTS IN MICHIGAN AND THE UNITED STATES: 1958-1983

(In millions of dollars)

Year	Michigan	United States	Michigan as a percentage of the United States
1958	1,254	25,978	4.83
1959	1,154	27,064	4.26
1960	1,207	28,940	4.17
1961	1,425	32,817	4.34
1962	1,384	33,770	4.10
1963	1,411	35,838	3.94
1964	1,459	37,430	3.90
1965	1,575	40,414	3.90
1966	1,746	44,667	3.91
1967	2,079	52,595	3.95
1968	2,346	59,920	3.92
1969	2,601	66,650	3.90
1970	3,244	80,149	4.05
1971	3,844	94,435	4.07
1972	4,322	104,681	4.13
1973	4,816	119,512	4.03
1974	5,973	141,221	4.23
1975	7,836	178,308	4.39
1976	8,131	194,273	4.19
1977	8,432	207,897	4.06
1978	8,872	223,844	3.96
1979	10,118	250,260	4.04
1980	13,499	297,570	4.54
1981	14,204	337,250	4.21
1982	15,976	376,052	4.25
1983	16,863	404,968	4.16

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

NOTE: See Table VII-2 for listing of items comprising transfer payments.

TABLE VII-2. TRANSFER PAYMENTS TO INDIVIDUAL CITIZENS IN MICHIGAN AND THE UNITED STATES, BY ITEM: 1982 AND 1983

(In millions of dollars)

Item	Michigan		United States	
	1982	1983	1982	1983
Old Age, Survivors, and Disability Insurance	6,447	6,888	153,714	164,362
Railroad retirement and disability	128	133	5,770	6,010
Federal employees retirement	293	313	19,882	21,178
State and local gov't employees retirement	710	795	19,700	22,044
Medical insurance payments	2,246	2,528	51,222	57,651
Worker's compensation[a]	221	251	3,629	4,050
Other government disability, insurance, and retirement programs[b]	21	21	2,573	2,667
Total government retirement, disability, and insurance programs	10,066	10,930	256,490	277,962
State unemployment insurance compensation	2,017	1,657	24,473	25,488
Unemployment compensation for federal civilian employees (UCFE)	6	5	261	241
Unemployment compensation for RR employees	19	16	505	417
Unemployment compensation for veterans (UCX)	5	10	79	184
Other unemployment compensation[c]	9	5	111	76
Total unemployment insurance benefit payments	2,056	1,694	25,429	26,406
Total federal education and training assistance pay (excl. vets)[d]	121	170	4,592	5,229
Supplemental Security Income (SSI) payments	260	282	8,979	9,405
Aid to families with dependent children	1,107	1,192	13,341	14,238
General assistance payments	249	274	1,872	2,050
Food stamps	483	587	9,906	11,104
Other income maintenance[e]	108	115	2,296	2,373
Total income maintenance benefit payments	2,207	2,450	36,394	39,170

TABLE VII-2. TRANSFER PAYMENTS TO INDIVIDUAL CITIZENS IN MICHIGAN AND THE UNITED STATES, BY ITEM: 1982 AND 1983 (cont.)

(In millions of dollars)

Item	Michigan 1982	Michigan 1983	United States 1982	United States 1983
Vets pension and compensation and military retirement	570	593	28,450	29,805
Educational assistance to Vets, dependents, and survivors[f]	45	42	1,611	1,370
Veterans' life insurance benefit payments	43	43	1,369	1,392
Other assistance to veterans[g]	7	6	222	192
Total veterans benefit payments	665	685	31,652	32,759
Other payments to individuals[h]	3	3	503	517
Total government payments to individuals	15,116	15,931	355,061	382,043
Total business payments to individuals[i]	455	505	11,465	12,804
Total payments to nonprofit institutions	405	427	9,526	10,121

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

a. Compensation to disabled federal and state employees.
b. Includes temporary disability payments, Panama Canal Construction Annuity payments, and black lung payments.
c. Includes trade readjustment allowance payments, redwood park benefit payments, public service employment benefit payments, and trasitional benefit payments.
d. National Science Foundation fellowships; other federal fellowships; subsistence of state marine school cadets; higher education loans-interest subsidy payments; basic education opportunity grants; and Job Corps payments.
e. Includes emergency assistance, refugee assistance, foster home care payments, earned income tax credits, and energy assistance.
f. Includes veterans' readjustment benefit payments and educational assistance to spouses and children of disabled or deceased veterans.
g. Includes payments to paraplegics, payments for autos and conveyance for disabled veterans, veterans' aid, and veterans' bonuses.
h. Includes Bureau of Indian Affairs payments, education exchange payments, Alaska Native Claims Settlement Act payments, compensation of survivors of public safety officers, compensation of victims of crime, and other special payments to individuals.
i. Includes consumer bad debts, personal injury payments to individuals other than employees, and other business transfer payments.

TABLE VI-22. CONSUMER PRICE INDEXES FOR ALL URBAN CONSUMERS IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA AND THE URBAN UNITED STATES BY ITEM, ANNUAL AVERAGES: 1980-1984

	1980		1981		1982		1983		1984	
Items	Detroit	United States	Detroit	United States	Detroit	United States	Detroit	United States	Detroit	United States
All items	253.5	246.8	277.1	272.4	288.3	289.1	296.5	298.4	306.9	311.1
Food	245.2	254.6	264.2	274.6	274.3	285.7	273.7	291.7	279.8	302.9
Food at home	246.1	251.5	265.2	269.9	277.5	279.2	275.6	282.2	281.7	292.6
Cereals & bakery products	254.8	246.4	276.6	271.1	291.5	283.4	299.4	292.5	312.2	305.3
Meats, poultry, fish, eggs	235.5	242.2	250.8	252.8	263.8	262.1	260.8	261.0	264.4	266.6
Dairy products	242.3	227.4	252.5	243.6	257.8	247.0	253.5	250.0	246.3	253.9
Fruits and vegetables	220.6	246.7	250.9	276.3	265.3	291.4	256.6	292.2	276.8	317.4
Other foods at home	295.8	n.a.	320.3	n.a.	334.3	n.a.	334.4	n.a.	341.5	n.a.
Food away from home	253.0	267.0	272.7	291.0	278.1	306.5	280.4	319.9	286.5	333.4
Housing	278.9	263.3	304.6	293.5	314.2	314.7	327.7	323.1	336.9	336.5
Shelter	309.8	281.7	334.2	314.7	339.5	337.0	349.3	344.8	360.0	361.7
Rent	194.1	191.6	206.1	208.2	214.3	224.0	220.2	236.9	228.5	249.3
Homeownership[a]	332.8	314.0	359.7	352.7	363.9	376.8	101.6	102.5	103.4	107.3
Fuel & utilities	286.8	278.6	333.6	319.2	366.9	350.8	402.6	370.3	422.2	387.3
Fuel oil and coal	579.0	556.0	711.7	675.9	701.7	667.9	650.3	628.0	584.4	641.8
Gas (piped) & electricity	319.7	301.8	366.8	345.9	408.9	393.8	463.2	428.7	480.7	445.2
Hsehld. furnish. & oper.	188.5	205.4	205.5	221.3	213.3	233.2	217.5	213.7	217.0	222.3
Apparel and upkeep	155.6	178.4	159.1	186.9	162.2	191.8	166.6	196.5	166.3	200.7
Men's and boy's	149.5	168.4	159.2	177.5	163.0	183.9	160.8	183.9	165.7	192.4
Women's and girl's	138.5	155.1	135.5	157.5	132.4	159.1	141.0	161.9	137.7	163.6
Footwear	161.7	190.3	157.0	200.4	157.3	205.5	156.0	206.9	151.3	209.5
Transportation	246.8	249.7	279.7	280.0	291.8	291.5	293.7	298.4	309.0	311.7
Private	246.5	249.2	278.8	277.5	290.9	287.5	291.4	293.9	305.8	306.6
Public	253.9	251.6	298.6	312.0	310.9	346.0	348.1	362.6	385.0	385.0
Medical care	297.7	265.9	320.1	294.5	346.4	328.7	365.5	357.3	403.1	379.5

SOURCE: Michigan Department of Management and Budget, Economic Report of the Governor (Lansing: annually).

a. Index changed to rent equivalent--December 1982=100.

TABLE VI-23. CONSUMER PRICE INDEX FOR THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, BY MONTH: 1971-1984

(1967 = 100)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Avg.
						Urban wage earners and clerical workers							
1971	120.3	120.0	120.1	120.1	120.9	121.8	121.8	122.8	122.8	122.8	123.4	123.7	121.7
1972	124.2	124.9	125.0	125.0	125.5	126.0	126.7	126.9	127.3	127.2	127.4	128.3	126.2
1973	128.5	129.7	131.1	132.4	133.4	133.7	133.8	136.8	137.3	137.9	139.0	140.0	134.5
1974	141.5	143.8	144.9	145.4	146.4	148.4	149.4	150.9	152.4	153.8	155.2	156.0	149.0
1975	155.5	156.5	157.0	157.7	158.1	159.7	160.8	161.3	162.8	163.1	163.9	164.6	160.1
1976	165.7	165.8	165.6	166.4	167.3	168.0	169.2	169.7	171.3	171.4	172.5	173.1	168.8
1977	173.8	175.1	176.8	179.0	179.3	181.0	182.5	182.6	182.8	183.1	184.5	184.4	180.4
1978	185.0	185.8	187.9	189.8	192.1	194.6	194.7	196.2	198.2	200.7	201.7	201.9	194.1
1979	204.9	208.8	211.6	213.2	214.1	215.5	219.8	222.6	223.5	226.9	230.8	232.2	218.7
1980	236.4	239.9	242.4	248.0	248.9	255.8	252.1	253.8	257.7	261.4	263.6	265.5	252.1
1981	264.4	265.5	263.6	268.0	271.3	275.9	278.9	279.1	280.2	278.2	276.4	275.1	273.1
1982	277.8	274.8	275.1	280.3	282.7	286.0	289.3	289.3	291.2	291.2	292.1	288.7	284.9
1983	288.0	287.1	289.8	295.0	298.0	300.7	303.8	303.7	299.2	298.2	301.8	301.3	297.8
1984	302.7	304.7	302.9	298.6	298.3	297.0	298.3	298.9	301.3	302.9	299.8	300.0	300.4
						All urban consumers							
1978	185.0	185.6	188.4	190.2	192.3	194.5	194.6	195.8	197.7	200.9	202.0	202.2	194.1
1979	205.1	208.8	211.6	213.2	213.9	215.4	219.5	222.2	223.7	227.2	231.3	233.2	218.8
1980	237.2	240.4	242.9	248.2	248.4	256.7	253.7	255.1	259.5	264.3	266.4	269.7	253.5
1981	268.5	270.2	268.2	272.4	275.2	280.5	283.1	283.5	284.2	281.5	279.6	278.3	277.1
1982	280.8	277.8	278.2	283.7	285.9	289.1	289.8	292.7	294.9	295.2	296.0	292.6	288.3
1983	292.6	292.3	292.4	294.9	294.9	296.6	298.4	298.8	304.6	298.9	299.9	300.1	296.5
1984	305.2	303.1	304.1	305.6	305.7	306.3	307.7	308.0	311.6	311.9	308.7	309.1	307.2

SOURCE: Bureau of Labor Statistics, special release.

TABLE VII-3. ESTIMATED PROPORTION OF THE POPULATION AGED 65 AND OLDER RECEIVING OASDI CASH BENEFITS AND SSI PAYMENTS: MICHIGAN AND THE UNITED STATES: 1970-1980 AND 1982

	OASDI[a]		SSI[b]		Both	
Year	Michigan	United States	Michigan	United States	Michigan	United States
			Proportion per 1,000[c]			
1970[d]	911	855	45	104	30	63
1971[d]	915	849	53	102	31	62
1972[d]	918	856	52	96	33	61
1973[d]	941	867	48	89	31	56
1974[e]	946	883	61	96	40	68
1975[f]	951	904	63	111	44	78
1976[f]	947	908	56	104	39	73
1977[f]	952	916	62	100	44	70
1978[f]	953	921	60	96	43	67
1979[f]	967	925	59	92	42	64
1980[f]	965	914	54	87	38	62
1982[f]	959	930	46	75	32	52

SOURCE: Social Security Administration, Social Security Bulletin, Annual Statistical Supplement, (Washington, D.C.), Table 158.

a. Old age, survivors, and disability insurance program of the federal government (Social Security).
b. For 1970-1973, data refer to old age assistance program; beginning January 1974, the supplemental security income program superseded the old age assistance program in the 50 states and District of Columbia.
c. Number per 1,000 population aged 65 and over.
d. February data.
e. June data.
f. December data.

TABLE VII-4. AMOUNT OF OASDI CASH BENEFITS PAID IN MICHIGAN AND THE UNITED STATES, BY TYPE OF PROGRAM: 1978-1983

(In millions of dollars)

Program	1978	1979	1980*	1981*	1982*	1983*
			Michigan			
Total cash benefits paid	$ 3,834	$ 4,199	$ 5,000	$ 5,850	$ 6,446	$ 6,889
OASI	3,284	3,609	4,327	5,100	5,690	6,122
DI	550	590	670	745	754	764
Old age & survivors insurance	3,284	3,609	4,327	5,100	5,690	6,122
Monthly benefits	3,271	--	--	--	--	--
Retired Workers	2,103	2,327	2,809	3,340	3,791	4,139
Dependents	247	271	322	380	415	444
Survivors	916	1,007	1,196	1,380	1,484	1,540
Special age-72	4	4	3	5	6	a
Lump sum death payments	13	--	--	--	--	--
Disability insurance:						
Monthly benefits	550	590	670	745	754	764
Disabled workers	452	484	553	620	641	662
Dependents	98	105	117	125	113	102
			United States			
Total cash benefits paid	$92,865	$101,229	$120,427	$140,995	$156,173	$167,033
OASI	80,352	87,801	104,916	123,685	138,715	149,418
DI	12,513	13,428	15,437	17,200	17,339	17,530
Old age & survivors insurance	80,352	87,801	104,916	123,685	138,715	149,418
Monthly benefits	80,008	87,461	--	--	--	--
Retired workers	53,255	58,342	70,359	83,615	98,175	103,578
Dependents	5,904	6,374	7,547	8,865	9,755	10,470
Survivors	20,707	22,745	27,010	31,205	33,785	35,369
Special age-72	142	131	119	110	119	a
Lump sum death payments	344	340	--	--	--	--
Disability insurance:						
Monthly benefits	12,513	13,428	15,437	17,200	17,339	17,530
Disabled workers	10,315	11,090	12,817	14,380	14,810	15,196
Dependents	2,198	2,338	2,621	2,820	2,529	2,335

SOURCE: Social Security Administration, Social Security Bulletin, Statistical Summaries (Washington, D.C.), Table 106.

*: Lump sum death payments are not being separated.

a. Special age-72 payments included in Survivors category of OASI program.

TABLE VII-6. NUMBER AND AVERAGE MONTHLY BENEFITS OF RETIRED WORKERS UNDER OASDI, CURRENT-PAY BENEFITS, MICHIGAN AND THE UNITED STATES: DECEMBER 1972-1982

	Number (In thousands)		Amount	
Year	Michigan	United States	Michigan	United States
1972	561	14,555	\$ 177.18	\$ 162.35
1973	585	15,365	180.80	166.42
1974	603	15,959	204.17	188.21
1975[a]	624	16,557	224.42	207.42
1976[a]	643	17,165	243.08	224.86
1977[a]	662	17,832	262.11	242.98
1978[a]	678	18,358	n.a.	263.19
1979[a]	689	18,970	n.a.	294.27
1980[a]	723	19,562	367.82	341.39
1981[a]	n.a.	20,195	n.a.	385.97
1982[a]	771	20,763	451.13	49.26

SOURCE: Social Security Administration, Social Security Bulletin, December 1972 through December 1983 (Washington, D.C.), Tables 107 and 108.

a. Not included are retired persons receiving Social Security benefits as part of their Railroad Retirement annuity. As of December 1983, this set equaled an estimated 25,000 retired workers in the United States.
n.a.: not available.

TABLE VII-7. NUMBER OF RECIPIENTS AND AVERAGE MONTHLY CASH BENEFITS PER RECIPIENT UNDER AID TO FAMILIES WITH DEPENDENT CHILDREN, MICHIGAN AND THE UNITED STATES: DECEMBER 1972-1982

	Number (In thousands)		Amount	
Year	Michigan	United States	Michigan	United States
1972	590	11,069	\$ 67.96	\$ 54.10
1973	600	10,815	74.03	56.95
1974	642	11,006	80.14	64.85
1975	676	11,383	88.43	71.72
1976	653	11,184	92.28	75.48
1977	623	10,761	99.08	79.46
1978	620	10,325	115.80	86.33
1979	638	10,316	122.37	93.09
1980	753	11,101	127.88	99.61
1981	754	11,079	122.15	97.64
1982	726	10,358	121.95	103.60

SOURCE: Social Security Administration, Social Security Bulletin (Washington, D.C.), Table 184.

TABLE VII-8. NUMBER OF RECIPIENTS AND AVERAGE MONTHLY CASH BENEFITS UNDER GENERAL ASSISTANCE, MICHIGAN AND THE UNITED STATES: DECEMBER 1973-1982

	Number (In thousands)		Amount	
Year	Michigan	United States	Michigan	United States
1973	49	700	$ 122.26	$ 81.95
1974	67	851	121.92	96.35
1975	76	977	130.66	102.07
1976	66	905	143.85	116.54
1977	51	820	147.24	124.34
1978	53	766	161.29	128.11
1979	84	885	161.33	123.31
1980	123	966	155.07	129.84
1981[a]	118	1,008	n.a.	n.a.
1982[a]	128	1,154	n.a.	n.a.

SOURCE: Social Security Administration, Social Security Bulletin, June 1974 through June 1984 (Washington, D.C.: monthly), Table M-33.

a. September data.
n.a.: Data not available

TABLE VII-9. SUPPLEMENTAL SECURITY INCOME FOR THE AGED, FEDERALLY ADMINISTRATED PAYMENTS, MICHIGAN AND THE UNITED STATES: DECEMBER 1973-1983

(In thousands)

	Number		Amount of payment	
Year	Michigan	United States	Michigan	United States
1973	38	1,820	$ 73.85	$ 76.15
1974	49	2,286	94.62	92.30
1975	52	2,307	98.72	90.90
1976	47	2,148	100.77	94.37
1977	45	2,051	107.45	96.62
1978	43	1,968	116.29	100.43
1979	41	1,872	127.05	122.67
1980	38	1,808	132.26	128.20
1981	34	1,678	131.46	137.81
1982	31	1,549	139.12	145.69
1983	30	1,515	153.74	157.89

SOURCE: Social Security Administration, Social Security Bulletin, Annual Statistical Supplement, Tables 157 and 168.

NOTE: For 1973 data refer to old age assistance program; beginning in January 1974, the supplemental security income program superseded the old age assistance program in the 50 states and District of Columbia.

TABLE VII-10. SUPPLEMENTAL SECURITY INCOME FOR THE BLIND, MICHIGAN AND THE UNITED STATES: DECEMBER 1971-1983

	Number (In thousands)		Average monthly amount[a]	
Year	Michigan	United States	Michigan	United States
1971	1.6	80.3	$122.08	$106.39
1972	1.7	79.8	114.27	112.85
1973	1.7	77.9	113.15	112.00
1974	1.7	74.6	143.64	140.57
1975	1.7	74.5	149.05	146.57
1976	1.6	76.4	148.37	152.77
1977	1.7	77.4	159.41	159.20
1978	1.7	77.1	170.85	164.40
1979	1.8	77.3	188.12	212.27
1980	1.9	78.4	206.88	213.23
1981	1.9	78.6	221.29	227.70
1982	1.9	77.4	243.14	241.59
1983	2.0	80.0	259.62	256.39

SOURCE: Social Security Administration, Social Security Bulletin, Annual Statistical Supplement, (Washington, D.C.: 1984), Table 169.

a. Amounts combined: federal and state payments.

TABLE VII-11. NUMBER OF RECIPIENTS AND AVERAGE MONTHLY CASH BENEFITS UNDER SUPPLEMENTAL SECURITY INCOME FOR THE PERMANENTLY AND TOTALLY DISABLED, MICHIGAN AND THE UNITED STATES: DECEMBER 1971-1983

	Number (In thousands)		Average monthly amount[a]	
Year	Michigan	United States	Michigan	United States
1971	38	1,068	$111.29	$102.25
1972	48	1,168	111.29	106.15
1973	54	1,275	121.56	109.75
1974	60	1,635	147.05	144.28
1975	66	1,933	151.38	141.15
1976	68	2,012	153.66	145.50
1977	71	2,109	160.53	150.36
1978	73	2,172	175.07	154.82
1979	74	2,201	195.35	181.71
1980	74	2,256	209.72	197.90
1981	75	2,262	227.77	214.49
1982	75	2,231	242.70	299.04
1983	79	2,307	263.90	245.49

SOURCE: Social Security Administration Social Security Bulletin, Annual Statistical Supplement, (Washington, D.C.: 1984), Table 170.

a. Amounts combined: federal and state payments.

TABLE VII-12. ESTIMATED EXPENDITURES IN MICHIGAN BY THE VETERANS ADMINISTRATION: FISCAL YEARS 1977-1983

(In millions of dollars)

Item	1977	1978	1979	1980	1981	1982	1983
Compensation and pensions	282.7	296.1	315.8	334.4	363.0	390.3	409.5
Vocational rehabilitation and education	124.8	101.0	77.0	67.5	67.7	47.2	50.4
Direct loans	.1	.09	.0	.11	.15	.15	--
Insurance & indemnities	30.3	29.4	32.7	34.6	30.0	43.8	43.0
Hospital and domiciliary construction	1.2	2.1	1.8	4.6	3.1	5.9	5.9
Administrative costs and other benefits	122.4	135.7	149.2	159.2	170.5	189.0	206.2
Total	561.6	564.3	576.6	599.9	634.5	676.4	714.9

SOURCE: Administrator of Veterans Affairs, Annual Report, (Washington, D.C.: annually), Table 80.

TABLE VII-13. BENEFITS PAID IN MICHIGAN UNDER THE RAILROAD RETIREMENT AND UNEMPLOYMENT INSURANCE ACTS, BY CLASS OF BENEFIT: FISCAL YEARS 1970-1984

(In thousands of dollars)

Year	Retirement	Survivor	Unemployment	Sickness	Total
1970	28,007	10,079	957	1,510	40,553
1971	33,828	11,520	1,974	1,494	48,817
1972	37,395	12,514	2,630	1,226	53,766
1973	42,249	14,961	1,681	1,095	59,988
1974	44,761	16,658	1,010	905	63,334
1975	50,429	19,381	2,047	952	72,809
1976	55,276	22,753	4,625	2,692	85,346
1977	59,764	24,575	3,419	2,709	90,466
1978	62,536	25,733	4,042	2,517	94,829
1979	67,127	27,326	2,762	2,381	99,596
1980	73,702	30,172	9,260	2,570	115,704
1981	81,965	34,195	9,575	2,109	127,844
1982	89,449	36,367	10,510	1,965	138,391
1983	95,400	37,300	14,900	1,700	132,700
1984	97,414	37,138	6,797	1,319	142,667

SOURCE: Railroad Retirement Board, Annual Report (Chicago, IL: annually).

TABLE VII-14. NUMBER OF FOOD STAMP RECIPIENTS IN MICHIGAN, FISCAL YEARS: 1975-1984

(Monthly average number of persons)

Year	Total	In public assistance households	In nonpublic assistance households
1975	642,412	473,839	168,573
1976	681,979	500,356	181,623
1977	631,748	490,984	140,764
1978	567,692	441,412	126,280
1979	633,550	480,760	152,790
1980	813,102	588,328	224,774
1981	941,532	720,490	221,042
1982	982,930	739,049	243,881
1983	1,082,632	806,059	276,573
1984	1,071,717	830,229	241,488

SOURCE: Michigan Department of Social Services, Data Reporting Section, special release.

TABLE VII-15. VALUE OF FOOD STAMPS ISSUED IN MICHIGAN, FISCAL YEARS: 1975-1984

Year	Annual value[a] ($000)	Bonus value[b] ($000)	Average monthly bonus per person
1975	$ 257,212	$ 123,343	$ 16.00
1976	299,442	143,677	17.56
1977	285,500	132,186	17.46
1978	270,400	124,925	18.36
1979	210,000	210,000	27.62
1980	262,764	262,764	26.93
1981	393,972	393,972	34.87
1982	448,920	448,920	38.06
1983	569,681	569,681	43.85
1984	580,270	580,270	45.12

SOURCE: Michigan Department of Social Services, Data Reporting Section, special release.

a. Available for food purchases.

b. Difference between value and purchase requirement. The change in federal regulations effective fiscal year 1979 also eliminates the distinction between total value of coupons and the bonus value.

TABLE VII-16. MEDICAL ASSISTANCE (MEDICAID) RECIPIENTS AND EXPENDITURES FOR MEDICAL ASSISTANCE IN MICHIGAN, BY TYPE OF CASE AND TYPE OF SERVICE, FISCAL YEARS: 1982, 1983, AND 1984

Classification	Year	Recipients[a]	Expenditures	Average per recipient[b]
		Type of case		
Age 65 and over	1982	90,748	$328,093,099	$ 3,615.43
	1983	87,251	357,206,923	4,091.95
	1984	87,889	378,019,702	1,362.61
Blind	1982	1,923	4,627,639	2,406.47
	1983	1,986	4,833,606	2,433.84
	1984	2,070	5,407,549	2,612.34
Disabled	1982	119,505	446,844,971	3,739.13
	1983	118,896	485,166,318	4,080.59
	1984	124,461	550,197,465	4,420.64
Dependent children under age 21	1982	684,629	210,981,840	308.17
	1983	688,673	235,200,833	341.53
	1984	655,355	240,875,944	367.55
Adults in families with dependent children	1982	347,310	291,128,214	838.24
	1983	358,486	323,445,951	902.26
	1984	362,611	345,899,480	953.91
Other Title XIX recipients	1982	11,040	10,954,928	992.29
	1983	24,156	16,029,819	663.60
	1984	60,911	53,644,067	880.70
		Type of service		
Inpatient general hospital services	1982	149,339	358,401,574	2,399.92
	1983	156,400	449,238,161	2,872.37
	1984	151,399	520,842,715	3,440.20
Inpatient mental hospital services	1982	2,749	29,811,197	10,844.38
	1983	2,728	31,021,246	11,371.42
	1984	3,177	48,648,247	14,471.35
Intermediate care services:				
Mentally retarded	1982	4,392	149,989,327	34,150.58
	1983	4,017	148,036,021	36,852.38
	1984	3,591	143,128,505	39,857.56
Other	1982	36,717	237,647,625	6,472.41
	1983	37,334	266,639,480	7,142.00
	1984	36,476	280,219,327	7,682.29
Physicians' services	1982	835,794	152,614,840	182.60
	1983	861,939	161,816,716	187.74
	1984	844,490	159,886,330	189.33
Dental services	1982	264,013	23,471,542	88.90
	1983	293,010	24,863,021	84.85
	1984	290,341	24,419,550	84.11
Other practitioners' services	1982	168,133	8,562,113	50.92
	1983	169,331	8,659,453	51.14
	1984	175,702	9,168,022	52.18
Outpatient hospital services	1982	445,591	67,927,810	152.44
	1983	446,704	53,089,616	118.85
	1984	459,040	80,942,888	176.33
Clinic services	1982	28,102	1,145,198	40.75
	1983	28,874	1,413,507	48.95
	1984	26,806	2,076,845	77.48
Lab & radiological	1982	232,836	16,141,936	69.28
	1983	252,956	17,048,835	67.40
	1984	256,362	17,373,504	67.77
Home health services	1982	5,861	4,267,251	728.08
	1983	6,811	4,738,154	695.66
	1984	7,881	5,938,535	753.53

TABLE VII-16. MEDICAL ASSISTANCE (MEDICAID) RECIPIENTS AND EXPENDITURES FOR MEDICAL ASSISTANCE IN MICHIGAN, BY TYPE OF CASE AND TYPE OF SERVICE, FISCAL YEARS: 1982, 1983, AND 1984 (cont.)

Classification	Year	Recipients[a]	Expenditures	Average per recipient[b]
		Type of service (cont.)		
Prescribed drugs	1982	742,825	$71,581,129	$ 96.36
	1983	774,896	77,560,984	100.09
	1984	764,048	86,822,120	113.63
Family planning services	1982	148,524	16,100,918	108.41
	1983	148,931	16,770,199	112.60
	1984	150,047	20,634,316	137.52
SNF services	1982	20,508	94,772,576	4,621.25
	1983	19,304	95,854,903	4,965.55
	1984	18,373	97,945,935	5,330.97
Early and periodic screening	1982	128,836	6,010,222	48.53
	1983	113,537	5,430,555	47.83
	1984	106,592	6,301,448	59.12
Other care	1982	167,539	54,185,343	323.42
	1983	169,227	59,523,139	351.74
	1984	192,630	69,695,920	361.81
TOTAL	1982	1,174,833	1,292,630,601	1,100.27
	1983	1,187,612	1,421,703,450	1,197.11
	1984	1,155,165	1,574,044,207	1,362.61

SOURCE: Michigan Department of Social Services, Medical Assistance (Medicaid) Fiscal Year 1982 (Lansing: annually), Table 1; Medical Assistance (Medicaid) Fiscal Year 1983 (Lansing: annually), Table 1, and Medical Assistance, Fiscal Year 1984 (Lansing: annually), Table 1.

a. The sum of recipients by type of service adds to more than the total because more then one type of service was provided to many recipients.
b. Number of recipients and average per recipient values are monthly averages.

TABLE VII-17. SUMMARY OF MICHIGAN PUBLIC ASSISTANCE: JANUARY 1984 AND 1985

Program	1984	1985	Percentage change
	Persons or cases		
Aid to families with dependent children			
Number of families			
Unemployed parent	47,021	36,229	-23.0
Regular segment	196,576	191,156	- 2.8
Number of recipients			
Unemployed parent	193,591	150,465	-22.3
Regular segment	563,675	547,947	- 2.8
General assitance			
Cases with children	9,512	9,590	+ 0.8
Cases without children	145,328	130,685	-10.1
Number of recipients	191,885	175,978	- 8.3
Emergency assistance			
Families receiving AFDC	3,085	3,357	+ 8.8
Families not receiving AFDC	531	626	+17.9
Recipients receiving AFDC	10,841	11,856	+ 9.4
Recipients not receiving AFDC	1,930	2,240	+16.1
Food Stamps			
Households receiving public assistance	330,944	309,088	- 6.6
Households not receiving public assistance	115,849	105,943	- 8.6
Recipients receiving other public assistance	838,718	779,381	- 7.1
Recipients not receiving other public assistance	249,159	216,962	-12.9
Total recipients of money payments	1,188,054	1,082,713	- 8.9
	Amounts ($1,000)		
Aid to families with dependent children			
Unemployed parent	23,967	19,104	-20.3
Regular segment	82,558	84,226	+ 2.0
General assistance	31,160	29,379	- 5.7
Emergency assistance			
Receiving AFDC	597.5	609.4	+2.0
Not receiving AFDC	125.5	148.3	+18.2

TABLE VII-17. SUMMARY OF MICHIGAN PUBLIC ASSISTANCE: JANUARY 1984 AND 1985 (cont.)

Program	1984	1985	Percentage change
	Amounts ($1,000) (cont.)		
Food stamps value	49,717	46,765	- 5.9
Medical assistance	110,273	122,161	+10.8
Total amount of money payments	188,126	183,742	- 2.3
	Amounts per family or recipient		
Aid to families with dependent children			
Per family			
Unemployed parent	509.71	527.32	+ 3.5
Regular segment	419.98	440.62	+ 4.9
Per recipient			
Unemployed parent	123.80	126.97	+ 2.6
Regular segment	146.46	153.71	+ 5.0
General assistance			
Per case	201.24	209.44	+ 4.1
Per recipient	162.39	166.95	+ 2.8
Emergency assistance			
Per case	199.93	181.54	- 9.2
Per recipient	56.61	51.40	-10.1
Food stamps			
Bonus per household	111.28	112.68	+ 1.3
Bonus per recipient	45.70	46.94	+ 2.7
Total expenditures per family recipient	158.35	169.70	+ 7.2

SOURCE: Michigan Department of Social Services, Assistance Payments Statistics (Lansing: monthly).

TABLE VII-5. NUMBER, BY TYPE OF BENEFIT, OF OASDI CURRENT-PAY BENEFITS, MICHIGAN AND THE UNITED STATES: DECEMBER 1973-1980 AND 1982

(In thousands)

			Spouses of		Children of					
Year	Retired workers	Disabled workers	Retired workers	Disabled workers	Retired workers	Deceased workers	Disabled workers	Widowed parents	Widows and widowers	Total[a,b]
					Michigan					
1973	585	84	112	15	22	122	48	23	153	1,175
1974	603	95	112	17	22	122	53	23	157	1,213
1975	625	105	113	19	23	123	59	24	161	1,258
1976	643	112	114	19	23	123	62	24	164	1,291
1977	662	116	115	20	25	120	62	24	168	1,317
1978	678	116	115	19	23	115	60	23	171	1,325
1979	689	115	114	19	23	115	59	23	173	1,334
1980	723	113	116	18	23	108	54	23	177	1,359
1982	771	103	117	14	20	94	39	20	184	1,365
					United States					
1973	15,365	2,016	2,808	381	613	2,912	1,161	572	3,656	29,869
1974	15,958	2,237	2,826	412	619	2,893	1,263	574	3,770	30,853
1975	16,588	2,489	2,867	453	643	2,919	1,411	582	3,889	32,085
1976	17,165	2,670	2,896	474	653	2,903	1,480	579	3,995	33,023
1977	17,821	2,838	2,961	495	695	2,860	1,528	583	4,120	34,079
1978	18,358	2,880	2,980	492	661	2,780	1,497	576	4,212	34,586
1979	18,591	2,878	2,966	483	645	2,745	1,466	567	4,260	34,739
1980	19,562	2,859	3,016	462	639	2,610	1,357	562	4,411	35,585
1982	20,763	2,604	3,039	366	558	2,321	1,004	515	4,595	35,839

SOURCE: Social Security Administration, Social Security Bulletin, (Washington, D.C.), Table 107.

a. Total is not identical sum: Parents and special age - 72 beneficiaries are not listed for years 1972-79.

b. As of the end of 1983, totals do not include an estimated 51,000 Railroad Retirement beneficiaries who would have been eligible for Social Security had they applied.

TABLE VII-18. ERROR RATES FOR AID TO FAMILIES WITH DEPENDENT CHILDREN: OCTOBER 1979 - SEPTEMBER 1984

(Percentage of total cases)

Reporting period	Source		Type			
	Agency	Client	Inel-igible	Over-payment	Under-payment	Total
Oct 1979-Mar 1980	16.3	12.9	4.3	16.3	8.7	29.2
Apr-Sep 1980	14.5	10.9	4.4	14.2	6.7	25.4
Oct 1980-Mar 1981	13.5	11.8	3.7	14.7	6.9	25.3
Apr-Sep 1981	11.1	10.6	3.4	13.8	4.5	21.7
Oct 1981-Mar 1982	14.6	11.5	6.1	14.8	5.1	26.0
Apr-Sep 1982	19.4	9.7	5.6	17.3	6.2	29.1
Oct 1982-Mar 1983	18.9	10.9	6.1	17.4	6.3	29.8
Apr-Sep 1983	18.9	10.6	6.5	16.1	7.0	29.5
Oct 1983-Mar 1984	15.4	12.1	7.1	14.2	6.2	27.5
Apr-Sep 1984	12.1	10.5	4.4	14.1	4.0	22.5

SOURCE: State of Michigan, Department of Social Services, Office of Standards and Investigations, special release.

TABLE VII-19. MISPAYMENT RATES FOR AID TO FAMILIES WITH DEPENDENT CHILDREN: OCTOBER 1979 - SEPTEMBER 1984

(Percentage of total funds)

Reporting period	Ineligible cases	Overpayment cases	Underpayment cases	Total[a]
Oct 1979-Mar 1980	3.9	4.5	1.0	9.4
Apr-Sep 1980	3.8	3.6	0.7	8.1
Oct 1980-Mar 1981	3.0	3.9	0.7	6.9
Apr-Sep 1981	3.5	3.7	0.4	7.1
Oct 1981-Mar 1982	5.3	4.0	0.6	9.4
Apr-Sep 1982	5.3	3.5	0.6	8.7
Oct 1982-Mar 1983	6.0	3.6	0.7	9.5
Apr-Sep 1983	5.9	3.8	0.8	9.7
Oct 1984-Mar 1984	7.2	3.2	--	10.4
Apr-Sep 1984	3.9	2.7	--	6.6

SOURCE: State of Michigan, Department of Social Services, Office of Standards and Investigations, special release.

a. Total includes only ineligible and overpayment cases.

TABLE VII-21. MONTHLY AVERAGE NUMBER OF MEDICAL ASSISTANCE (MEDICAID) RECIPIENTS, BY COUNTY, FISCAL YEARS: 1983 AND 1984

	Number			Number	
County	1983	1984	County	1983	1984
Alcona	568	549	Lake	812	824
Alger	410	440	Lapeer	3,384	3,485
Allegan	2,838	2,838	Leelanau	279	277
Alpena	1,759	1,890	Lenawee	3,702	3,753
Antrim	805	859	Livingston	2,377	2,400
Arenac	1,071	1,114	Luce	614	612
Baraga	492	567	Mackinac	442	404
Barry	1,760	1,762	Macomb	18,348	17,263
Bay	6,091	6,493	Manistee	1,099	1,110
Benzie	645	643	Marquette	2,327	2,478
Berrien	10,515	10,362	Mason	1,170	1,217
Branch	2,440	2,369	Mecosta	1,376	1,375
Calhoun	8,333	8,632	Menominee	877	944
Cass	2,292	2,124	Midland	2,327	2,347
Charlevoix	870	883	Missaukee	476	465
Cheboygan	1,199	1,291	Monroe	5,233	5,275
Chippewa	1,376	1,493	Montcalm	2,420	2,400
Clare	1,902	2,082	Montmorency	542	597
Clinton	1,247	1,266	Muskegon	10,494	10,738
Crawford	622	681	Newaygo	2,110	2,084
Delta	1,810	1,994	Oakland	26,983	26,794
Dickinson	891	952	Oceana	1,345	1,410
Eaton	2,153	2,219	Ogemaw	1,437	1,532
Emmet	925	943	Ontonagon	429	539
Genesee	27,258	26,985	Osceola	1,053	1,069
Gladwin	1,357	1,492	Oscoda	395	442
Gogebic	901	1,002	Otsego	724	703
Grand Traverse	1,923	2,028	Ottawa	3,053	2,963
Gratiot	2,061	2,072	Presque Isle	580	622
Hillsdale	1,891	1,936	Roscommon	990	1,098
Houghton	1,807	1,914	Saginaw	13,469	13,731
Huron	1,528	1,554	St. Clair	6,954	7,060
Ingham	11,203	11,620	St. Joseph	2,349	2,165
Ionia	2,408	2,408	Sanilac	1,954	2,032
Iosco	1,184	1,246	Schoolcraft	493	502
Iron	724	707	Shiawassee	3,216	3,301
Isabella	2,412	2,463	Tuscola	2,786	2,860
Jackson	6,870	7,396	Van Buren	4,408	4,474
Kalamazoo	8,226	8,331	Washtenaw	7,530	7,732
Kalkaska	668	737	Wayne	189,335	188,529
Kent	16,096	16,052	Wexford	1,555	1,447
Keweenaw	93	89	MICHIGAN	473,067	475,440

SOURCE: Michigan Department of Social Services, Medical Assistance (Medicaid), Fiscal Year 1983 (Lansing: 1984), and Medical Assistance (Medicaid), Fiscal Year, 1984 (Lansing: 1984), Table 8.

TABLE VII-20. NUMBER AND AMOUNT OF MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS BY TYPE OF BENEFICIARY: DECEMBER 1984

	Number of Beneficiaries						Amount ($1,000) of monthly benefits	
			Dependents of					
County	Retired workers	Disabled workers	Retired workers	Disabled workers	Survivors	Total[a]	Retired workers only	Total[b]
Alcona	2,032	199	380	97	481	3,189	1,313	919
Alger	1,217	178	238	93	371	2,097	839	534
Allegan	7,047	775	1,175	380	2,037	11,414	4,888	3,351
Alpena	3,992	516	776	233	1,415	6,932	2,966	1,885
Antrim	2,450	219	402	107	572	3,750	1,579	1,123
Arenac	1,974	258	387	189	600	3,408	1,393	915
Baraga	1,200	114	230	64	369	1,977	786	529
Barry	3,976	436	665	211	993	6,281	2,688	1,874
Bay	10,536	1,318	2,066	598	3,975	18,493	8,107	5,173
Benzie	1,606	161	254	90	344	2,455	1,013	729
Berrien	18,052	2,374	2,575	1,311	5,732	30,044	12,932	8,691
Branch	4,223	470	700	260	1,224	6,877	2,920	2,001
Calhoun	14,082	2,105	1,881	877	4,204	23,149	10,116	6,812
Cass	4,383	461	623	217	1,133	6,817	2,919	2,056
Charlevoix	2,687	252	426	131	642	4,138	1,733	1,232
Cheboygan	2,711	264	475	129	727	4,306	1,769	1,228
Chippewa	3,423	359	643	123	1,068	5,616	2,236	1,492
Clare	3,768	504	646	268	1,007	6,193	2,561	1,709
Clinton	3,332	322	720	170	1,154	5,698	2,431	1,593
Crawford	1,280	141	221	74	302	2,018	853	595
Delta	4,273	581	843	238	1,482	7,515	3,016	1,881
Dickinson	3,633	366	623	131	1,117	5,870	2,410	1,605
Eaton	5,341	511	883	241	1,816	8,792	3,837	2,575
Emmet	2,930	266	461	134	874	4,665	1,960	1,348
Genesee	31,820	6,374	5,632	3,366	13,609	60,801	26,936	15,785

TABLE VII-20. NUMBER AND AMOUNT OF MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS BY TYPE OF BENEFICIARY: DECEMBER 1984 (cont.)

County	Number of Beneficiaries						Amount ($1,000) of monthly benefits	
			Dependents of					
	Retired workers	Disabled workers	Retired workers	Disabled workers	Survivors	Total[a]	Retired workers only	Total[b]
Gladwin	2,983	393	561	204	764	4,905	2,058	1,370
Gogebic	3,269	357	642	192	1,204	5,564	2,252	1,458
Grand Traverse	6,318	694	950	266	1,744	9,972	4,304	2,981
Gratiot	3,867	403	736	194	1,411	6,611	2,752	1,788
Hillsdale	4,215	463	709	271	1,327	6,985	2,913	1,972
Houghton	4,821	458	1,013	194	1,606	8,092	3,249	2,141
Huron	4,872	379	1,045	172	1,625	8,093	3,261	2,203
Ingham	20,223	2,312	3,218	1,222	7,028	34,003	15,233	10,254
Ionia	4,484	532	752	254	1,431	7,453	3,124	2,084
Iosco	3,847	412	722	252	1,008	6,241	2,570	1,740
Iron	2,673	245	536	131	808	4,393	1,779	1,189
Isabella	3,151	349	610	233	1,176	5,519	2,317	1,503
Jackson	14,066	1,705	2,063	718	4,253	22,805	10,273	6,995
Kalamazoo	17,615	2,083	2,454	829	5,075	28,056	12,733	8,832
Kalkaska	1,243	152	210	82	361	2,048	841	556
Kent	40,910	4,486	6,077	1,884	12,157	65,514	29,241	20,126
Keweenaw	440	58	115	39	123	775	307	197
Lake	1,717	191	245	92	364	2,609	1,040	743
Lapeer	4,159	595	800	329	1,734	7,617	3,273	2,006
Leelanau	1,719	113	305	45	323	2,505	1,050	787
Lenawee	8,704	1,055	1,421	467	2,741	14,388	6,239	4,154
Livingston	5,858	665	979	368	1,996	9,866	4,424	2,914
Luce	857	154	148	74	296	1,529	621	395
Mackinac	1,445	151	278	76	399	2,349	935	638
Macomb	55,516	6,800	8,909	2,885	21,107	95,217	44,201	28,485

TABLE VII-20. NUMBER AND AMOUNT OF MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS BY TYPE OF BENEFICIARY: DECEMBER 1984 (cont.)

	Number of Beneficiaries						Amount ($1,000) of monthly benefits	
			Dependents of					
County	Retired workers	Disabled workers	Retired workers	Disabled workers	Survivors	Total[a]	Retired workers only	Total[b]
Manistee	3,310	343	479	140	795	5,067	2,132	1,504
Marquette	5,922	688	1,100	261	1,967	9,938	4,175	2,718
Mason	3,323	303	479	167	800	5,072	2,088	1,483
Mecosta	3,348	396	554	202	839	5,339	2,205	1,526
Menominee	3,178	321	624	169	958	5,250	2,086	1,396
Midland	4,904	489	1,141	270	1,813	8,617	3,809	2,450
Missaukee	1,229	133	257	86	329	2,034	801	538
Monroe	9,437	1,376	1,719	756	3,540	16,828	7,425	4,599
Montcalm	5,576	636	906	314	1,611	9,083	3,727	2,527
Montmorency	1,762	221	304	96	400	2,783	1,175	810
Muskegon	15,515	2,495	2,662	1,302	5,460	27,434	11,938	7,633
Newaygo	3,867	469	646	267	1,035	6,284	2,600	1,771
Oakland	80,773	8,235	13,483	3,569	29,181	135,241	64,874	43,144
Oceana	2,646	324	438	175	800	4,383	1,757	1,174
Ogemaw	2,455	386	454	210	662	4,167	1,693	1,104
Ontonagon	1,387	152	274	72	425	2,310	936	618
Osceola	2,570	337	457	206	755	4,316	1,736	1,151
Oscoda	940	142	160	69	250	1,561	637	412
Otsego	1,755	185	320	109	520	2,889	1,218	819
Ottawa	12,918	1,055	2,470	530	3,796	20,769	9,239	6,382
Presque Isle	1,917	238	454	97	616	3,322	1,352	866
Roscommon	4,156	496	687	207	822	6,369	2,718	1,920
Saginaw	18,154	2,800	3,538	1,633	7,493	33,618	14,608	8,904
St. Clair	12,881	1,340	2,179	679	4,394	21,473	9,424	6,242
St. Joseph	5,995	630	817	300	1,632	9,374	4,130	2,919

TABLE VII-20. NUMBER AND AMOUNT OF MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS BY TYPE OF BENEFICIARY: DECEMBER 1984 (cont.)

	Number of Beneficiaries						Amount ($1,000) of monthly benefits	
			Dependents of					
County	Retired workers	Disabled workers	Retired workers	Disabled workers	Survivors	Total[a]	Retired workers only	Total[b]
Sanilac	4,728	403	979	193	1,467	7,770	3,220	2,175
Schoolcraft	1,194	149	253	100	394	2,090	848	538
Shiawassee	5,756	690	1,979	406	2,069	9,900	4,260	2,751
Tuscola	4,900	619	1,077	333	1,898	8,827	3,725	2,325
Van Buren	7,317	934	1,052	550	2,059	11,912	4,922	3,359
Washtenaw	14,893	2,431	2,075	1,011	4,914	25,324	11,830	7,822
Wayne	200,896	32,198	31,523	14,811	81,804	361,232	160,598	100,475
Wexford	3,024	374	530	170	901	4,999	2,065	1,389
MICHIGAN	813,566	106,717	134,531	50,756	285,609	1,391,179	615,184	400,631

SOURCE: Social Security Administration: special release.

a. Total includes special age 72 beneficiaries.

b. Total includes retired workers, disabled workers, and all other beneficiaries.

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1983 AND 1984

		Inpatient hospital						
County	Year	General hospital	Mental hospital	Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
Alcona	1983	269,571	36,009	25,018	541,178	104,530	38,903	1,230,807
	1984	383,574	20,814	30,305	970,721	94,143	31,091	1,792,644
Alger	1983	280,065	9,332	136,275	773,213	100,168	17,607	1,472,800
	1984	264,407	4,113	147,713	660,937	108,565	17,794	1,435,004
Allegan	1983	1,844,577	247,192	684,148	3,186,145	706,659	172,822	7,910,606
	1984	2,317,343	382,514	641,133	3,469,613	687,845	170,873	9,017,856
Alpena	1983	968,640	136,091	206,604	1,239,713	431,997	85,502	3,678,371
	1984	1,298,766	259,973	245,262	1,911,246	448,440	106,897	5,270,800
Antrim	1983	530,794	7,785	172,238	1,146,328	198,701	36,792	2,388,511
	1984	521,251	55,507	200,040	1,572,513	211,105	40,389	3,025,856
Arenac	1983	730,850	290	218,099	992,856	283,928	61,792	2,701,082
	1984	812,082	69,756	296,211	956,189	289,731	51,223	3,054,493
Baraga	1983	514,847	9,582	562,687	138,437	114,449	20,423	1,525,989
	1984	433,733	24,972	341,780	381,205	129,588	32,870	1,602,141
Barry	1983	968,158	106,427	583,936	1,674,816	462,565	100,139	4,531,583
	1984	1,364,386	182,987	692,098	1,694,926	469,556	95,577	5,450,226
Bay	1983	4,704,838	337,584	798,484	2,388,066	2,329,073	234,078	12,927,483
	1984	5,729,246	542,872	1,280,424	3,643,223	2,229,778	248,419	16,451,220
Benzie	1983	567,278	8,191	101,925	517,698	200,552	40,864	1,751,484
	1984	370,549	11,875	132,517	360,176	157,534	45,864	1,647,572
Berrien	1983	8,010,925	544,926	1,110,706	5,788,239	2,951,125	524,591	22,603,924
	1984	10,086,163	727,290	1,359,924	6,507,234	2,961,979	527,625	26,936,568
Branch	1983	1,695,315	75,325	548,926	22,987,828	546,167	129,111	26,642,995
	1984	1,332,053	276,596	557,134	21,466,949	458,410	116,225	26,866,185
Calhoun	1983	7,457,571	1,749,892	1,299,436	4,968,331	2,628,609	460,714	21,698,095
	1984	7,866,660	1,896,978	1,441,975	6,864,449	2,760,750	449,268	23,284,935
Cass	1983	1,578,520	60,407	444,151	1,870,360	574,027	160,257	5,535,443
	1984	1,795,371	79,937	585,006	1,790,794	500,698	136,522	5,817,163

TABLE VII-23. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER AID TO FAMILIES WITH DEPENDENT CHILDREN, EMERGENCY ASSISTANCE, GENERAL ASSISTANCE, AND FOOD STAMPS IN MICHIGAN, BY COUNTY: JANUARY 1983 AND 1984

	1983			1984		
		Payments			Payments	
County	Number of recipients	Total ($1,000)	Average per recipient	Number of recipients	Total ($1,000)	Average per recipient
Alcona	1,477	190.6	$ 129.01	1,326	178.8	$134.90
Alger	977	116.6	116.97	961	119.5	124.39
Allegan	6,734	858.4	127.48	5,991	814.1	135.89
Alpena	4,839	683.4	141.23	4,371	643.0	147.10
Antrim	1,977	234.7	118.74	1,764	207.8	117.81
Arenac	2,873	366.7	127.62	2,951	430.1	145.73
Baraga	1,581	199.9	126.45	1,347	191.5	142.14
Barry	4,500	604.3	134.29	4,017	608.9	151.57
Bay	15,602	2,371.1	151.97	13,919	2,295.7	164.93
Benzie	1,487	170.3	114.49	1,314	152.3	115.88
Berrien	26,304	3,557.6	135.25	23,997	3,365.2	140.24
Branch	4,692	670.8	142.96	4,173	619.4	148.43
Calhoun	22,146	3,359.1	151.68	20,424	3,345.7	163.81
Cass	5,496	744.4	135.45	5,199	748.3	143.94
Charlevoix	2,164	277.1	128.07	1,770	255.9	144.59
Cheboygan	3,249	371.8	114.43	2,987	375.9	125.85
Chippewa	3,890	491.1	126.25	3,651	507.2	138.93
Clare	4,910	729.0	148.46	4,713	783.5	166.25
Clinton	3,026	440.8	145.68	2,790	433.4	155.35
Crawford	2,198	268.1	121.99	1,950	256.6	131.59
Delta	4,690	603.1	128.60	4,196	593.8	141.53
Dickinson	2,160	293.1	135.71	1,957	277.5	141.82
Eaton	5,440	763.9	140.42	4,681	692.1	147.86
Emmet	2,325	261.4	112.41	2,083	262.4	125.98
Genesee	74,141	12,073.6	162.85	69,462	12,031.2	173.21
Gladwin	3,916	566.8	144.73	3,704	600.9	162.22
Gogebic	2,696	292.4	108.45	2,883	362.9	125.88
Grand Traverse	4,167	514.4	123.44	3,704	493.2	133.16
Gratiot	4,602	571.1	124.10	4,243	593.2	139.81
Hillsdale	5,481	693.6	126.55	5,183	724.6	139.81
Houghton	4,916	570.1	115.97	4,651	629.1	135.27
Huron	3,376	456.2	135.14	2,785	404.1	145.12
Ingham	30,587	4,706.4	153.87	28,401	4,707.2	165.74
Ionia	4,814	699.2	145.24	4,403	666.4	151.35
Iosco	3,416	416.2	121.84	3,210	430.0	133.96

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1983 AND 1984 (cont.)

County	Year	Inpatient hospital: General hospital	Inpatient hospital: Mental hospital	Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
Charlevoix	1983	486,292	24,146	120,038	958,254	188,205	43,017	2,126,568
	1984	515,281	29,077	145,043	1,129,729	200,717	42,349	2,396,410
Cheboygan	1983	842,720	17,464	196,408	1,012,004	405,405	68,097	2,977,655
	1984	1,196,613	53,059	160,925	1,165,093	417,834	60,372	3,638,492
Chippewa	1983	1,165,578	16,869	411,033	1,345,369	341,097	63,939	3,922,836
	1984	1,491,682	78,546	530,419	1,357,927	387,842	60,223	4,862,983
Clare	1983	1,293,819	60,625	274,988	915,352	585,195	157,595	3,951,605
	1984	1,644,381	330,431	177,283	1,099,440	634,300	164,023	4,923,760
Clinton	1983	712,469	29,051	20,559	927,335	363,236	56,245	2,517,988
	1984	1,044,874	141,478	23,304	1,008,271	379,095	54,825	3,233,264
Crawford	1983	518,701	40,117	119,403	354,541	155,910	37,420	1,470,331
	1984	526,689	92,449	84,269	545,828	164,182	33,372	1,759,665
Delta	1983	846,928	38,250	1,531,433	2,381,470	463,882	78,044	6,019,394
	1984	1,093,417	139,667	1,529,568	2,626,034	459,581	78,310	6,927,800
Dickinson	1983	508,531	21,020	83,349	1,123,771	204,605	48,710	2,291,727
	1984	492,007	48,390	144,435	1,167,763	210,354	55,681	2,677,566
Eaton	1983	1,289,036	92,944	449,692	2,049,556	549,753	79,923	5,258,737
	1984	1,509,478	191,976	489,635	2,288,527	548,086	90,792	6,560,526
Emmet	1983	594,923	61,675	301,972	1,614,901	247,990	42,203	3,211,113
	1984	665,991	237,648	389,400	1,510,156	269,915	35,734	3,567,438
Genesee	1983	21,729,034	1,080,466	4,108,366	7,699,285	10,092,904	1,270,336	56,558,225
	1984	26,199,450	1,722,747	4,618,662	7,849,827	10,391,922	1,184,837	64,592,318
Gladwin	1983	840,489	14,955	107,665	448,551	407,726	89,102	2,407,734
	1984	1,108,844	36,114	155,136	544,310	429,345	112,666	3,069,576

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1983 AND 1984 (cont.)

County	Year	Inpatient hospital General hospital	Inpatient hospital Mental hospital	Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
Gogebic	1983	386,931	15,222	403,541	1,579,321	190,758	46,188	2,914,035
	1984	462,393	36,039	379,763	1,735,863	193,722	67,640	3,314,631
Grand	1983	1,121,490	36,728	1,467,883	2,950,502	498,084	94,586	6,991,910
Traverse	1984	1,160,102	455,375	1,526,593	3,250,181	470,162	78,812	8,166,855
Gratiot	1983	1,024,958	97,804	177,965	2,167,598	560,243	88,777	4,732,857
	1984	1,289,512	101,293	173,215	2,542,127	538,423	90,823	5,506,997
Hillsdale	1983	1,549,596	21,862	323,756	2,141,225	506,061	80,247	5,377,684
	1984	1,977,829	232,364	372,043	2,501,560	533,790	78,330	6,774,490
Houghton	1983	961,322	49,353	2,166,826	1,903,350	414,603	97,135	6,237,215
	1984	1,226,101	92,375	2,018,503	1,967,189	431,870	118,327	6,863,027
Huron	1983	846,275	63,702	725,920	1,602,098	374,206	72,492	4,242,739
	1984	1,007,464	69,170	801,221	1,876,491	362,433	70,118	4,992,206
Ingham	1983	8,341,784	887,147	943,425	7,155,581	3,150,156	528,651	25,167,213
	1984	8,575,253	1,240,495	1,211,408	7,492,092	3,157,598	543,419	28,976,143
Ionia	1983	1,456,210	63,890	163,988	1,716,132	742,289	119,058	5,012,948
	1984	1,746,603	121,865	268,308	1,622,649	710,077	100,531	5,563,281
Iosco	1983	717,596	77,228	194,303	1,279,623	328,646	66,032	3,104,511
	1984	871,511	96,355	160,348	1,549,110	341,716	66,885	3,619,639
Iron	1983	350,393	26,319	673,719	1,633,617	151,866	30,403	3,240,495
	1984	359,525	7,333	592,123	1,916,617	128,162	26,016	3,558,729
Isabella	1983	1,235,579	121,932	2,764,717	24,817,534	626,766	71,368	30,402,798
	1984	1,434,835	405,345	2,646,664	21,624,898	594,406	81,831	27,869,259
Jackson	1983	4,726,184	585,191	887,346	5,395,924	2,383,691	261,217	16,564,356
	1984	6,135,972	1,140,081	1,125,911	5,372,622	2,358,726	297,457	19,589,693
Kalamazoo	1983	7,103,422	1,016,305	5,796,673	4,406,113	2,168,385	400,704	24,577,547
	1984	7,487,595	2,030,753	5,361,011	5,342,890	2,151,126	405,469	27,331,927

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1983 AND 1984 (cont.)

		Inpatient hospital						
County	Year	General hospital	Mental hospital	Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
Kalkaska	1983	$377,402	$2,660	$61,593	$292,167	$180,566	$37,852	$1,181,518
	1984	554,407	37,841	76,729	250,377	196,844	41,357	1,518,312
Kent	1983	9,034,765	1,679,750	3,543,364	12,670,280	4,042,983	758,355	37,749,053
	1984	11,088,188	2,749,587	3,116,006	13,564,312	4,097,990	715,513	42,793,439
Keweenaw	1983	32,725	13,790	427	--	20,934	3,830	104,535
	1984	22,780	--	--	--	16,813	3,695	79,425
Lake	1983	500,276	12,113	358,694	705,054	144,031	46,757	2,085,682
	1984	665,376	22,738	421,049	634,009	156,160	43,166	2,326,995
Lapeer	1983	2,291,130	64,825	1,473,269	22,651,616	979,351	150,950	28,615,570
	1984	2,541,360	226,738	1,298,452	24,624,789	1,009,312	156,584	31,325,294
Leelanau	1983	209,749	1,671	155,480	645,325	74,541	10,743	1,199,841
	1984	161,250	42,513	120,316	696,021	64,879	10,170	1,219,896
Lenawee	1983	2,557,615	144,818	712,285	2,330,710	992,915	177,217	7,996,666
	1984	3,220,121	310,359	724,437	2,507,137	1,033,949	176,257	9,502,032
Livingston	1983	2,080,661	69,798	309,842	2,305,684	644,182	131,078	6,351,765
	1984	2,017,925	393,674	305,352	2,068,485	701,103	126,996	6,792,824
Luce	1983	384,097	42,307	2,520	9,631,887	133,847	16,878	10,445,526
	1984	375,938	19,671	15,052	9,442,653	119,928	20,845	10,302,955
Mackinac	1983	322,187	9,498	91,570	684,470	107,286	16,035	1,395,655
	1984	315,543	2,439	92,768	637,388	97,776	20,326	1,340,207
Macomb	1983	12,815,902	1,550,749	7,015,501	16,891,045	7,238,042	991,259	53,388,901
	1984	15,133,326	2,145,865	6,791,747	17,516,154	6,898,878	857,257	57,520,388
Manistee	1983	674,940	1,113	524,068	1,466,633	284,303	73,070	3,387,649
	1984	766,174	273	469,395	1,423,362	267,116	82,348	3,507,324
Marquette	1983	1,653,831	126,039	629,434	2,509,066	627,304	111,326	6,443,413
	1984	1,713,939	54,141	817,896	2,429,920	679,847	108,579	7,004,139

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1983 AND 1984 (cont.)

		Inpatient hospital			Intermediate			
County	Year	General hospital	Mental hospital	Skilled nursing	care facility	Physicians	Dental	Total[a]
Mason	1983	$ 516,156	$ 67,870	$ 955,519	$ 834,715	$ 274,113	$ 59,048	$ 3,132,878
	1984	817,022	63,585	990,408	845,945	307,501	71,726	3,717,123
Mecosta	1983	943,144	71,116	460,680	887,569	379,429	75,288	3,335,987
	1984	1,110,982	251,060	611,363	805,546	377,442	80,577	3,891,746
Menominee	1983	408,520	12,866	19,554	812,266	202,339	33,614	1,826,666
	1984	634,221	72,445	20,500	939,149	203,772	43,540	2,545,454
Midland	1983	1,168,237	169,665	353,544	1,470,080	544,822	145,509	4,701,815
	1984	1,328,631	311,665	496,740	1,456,178	595,398	138,525	5,333,971
Missaukee	1983	308,266	16,003	76,422	46,078	115,153	33,508	769,685
	1984	316,920	135,787	14,279	100,412	108,442	34,471	992,456
Monroe	1983	4,008,739	279,718	2,717,348	3,193,393	1,966,848	218,714	14,204,499
	1984	4,881,999	333,291	2,851,089	3,032,074	1,882,707	240,800	15,570,338
Montcalm	1983	1,546,908	120,515	140,421	1,402,544	685,136	96,622	4,779,651
	1984	1,781,366	353,257	121,271	1,589,610	714,138	90,733	5,750,700
Montmorency	1983	284,905	39,570	44,614	639,202	154,578	46,596	1,414,895
	1984	290,342	6,505	50,799	1,717,410	145,893	36,254	2,540,273
Muskegon	1983	6,317,027	514,802	1,481,563	20,165,487	3,066,697	555,468	35,796,969
	1984	8,472,051	597,263	1,529,152	20,941,301	3,268,386	564,994	40,070,753
Newaygo	1983	1,022,915	55,921	985,864	1,021,224	517,211	124,151	4,507,286
	1984	1,362,345	74,933	1,108,845	1,183,619	563,387	100,865	5,350,364
Oakland	1983	20,453,545	5,115,916	4,983,135	17,572,475	9,837,333	1,542,480	70,751,891
	1984	24,068,443	4,669,566	5,234,193	19,013,330	9,875,312	1,374,493	77,771,623
Oceana	1983	959,675	56,469	714,182	672,224	370,773	93,103	3,342,128
	1984	934,203	120,269	772,210	601,950	354,584	75,671	3,495,958
Ogemaw	1983	790,641	43,535	1,928,292	1,377,677	432,022	60,795	5,205,765
	1984	851,647	111,564	1,368,698	1,533,562	424,481	69,261	5,082,697

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1983 AND 1984 (cont.)

		Inpatient hospital						
County	Year	General hospital	Mental hospital	Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
Ontonagon	1983	$432,833	$ 14,857	$ 595,672	$ 666,456	$ 103,369	$ 11,714	$ 1,985,404
	1984	548,455	13,834	575,691	697,321	133,998	30,396	2,314,514
Osceola	1983	796,452	21,740	151,332	576,256	276,154	65,385	2,253,112
	1984	769,088	63,120	89,265	596,313	261,811	63,999	2,330,706
Oscoda	1983	271,928	34,998	46,461	377,611	109,884	17,326	993,934
	1984	237,158	24,944	45,620	399,424	100,237	17,501	1,020,482
Otsego	1983	478,500	42,802	136,600	4,091,560	243,665	29,807	5,282,967
	1984	452,112	58,073	74,829	2,200,080	231,724	34,353	3,355,290
Ottawa	1983	1,542,932	265,336	780,219	5,156,943	782,057	158,970	9,797,771
	1984	1,864,855	420,245	626,631	5,576,164	715,027	132,802	10,863,084
Presque Isle	1983	456,298	38,693	101,168	1,150,240	156,411	23,621	2,164,788
	1984	465,956	68,873	74,592	1,920,412	164,382	26,560	3,085,521
Roscommon	1983	609,884	19,490	37,410	535,027	228,093	49,168	1,879,840
	1984	838,502	72,735	35,548	555,307	270,626	55,246	2,372,355
Saginaw	1983	9,752,259	702,885	1,435,268	7,124,994	4,016,717	698,805	27,943,423
	1984	10,661,446	1,213,503	1,389,124	8,113,348	3,976,875	748,335	31,693,202
St. Clair	1983	4,119,981	371,134	813,904	3,056,320	2,330,632	570,072	13,369,772
	1984	4,930,452	581,162	1,004,936	2,912,443	2,389,095	539,854	15,515,848
St. Joseph	1983	1,940,556	35,262	400,852	2,485,093	606,573	112,606	6,539,285
	1984	1,997,145	148,227	459,074	2,461,716	537,598	118,261	[illegible],848,500
Sanilac	1983	1,388,736	116,805	609,578	1,183,988	576,975	134,044	4,725,868
	1984	1,449,235	54,335	604,101	1,296,111	591,441	134,343	5,317,317
Schoolcraft	1983	350,654	1,262	172,873	724,318	119,545	17,584	1,569,322
	1984	300,511	190,283	209,491	809,067	105,954	27,524	1,962,147

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1983 AND 1984 (cont.)

County	Year	Inpatient hospital General hospital	Inpatient hospital Mental hospital	Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
Shiawassee	1983	$ 1,099,113	$ 80,241	$ 1,220,216	$ 1,921,357	$ 907,847	$ 157,765	$ 7,187,143
	1984	2,001,811	120,596	785,922	2,364,949	945,796	159,653	7,763,268
Tuscola	1983	1,576,276	75,455	1,333,718	13,648,811	669,823	136,365	18,333,659
	1984	1,863,201	73,514	895,938	19,781,090	706,385	128,086	24,996,717
Van Buren	1983	3,854,103	365,919	673,709	2,406,304	1,304,194	260,332	10,640,807
	1984	4,551,987	544,188	541,159	2,650,151	1,208,888	278,683	12,039,428
Washtenaw	1983	7,026,400	1,150,611	654,539	4,726,199	2,687,210	320,136	19,503,826
	1984	8,994,247	2,766,948	835,353	4,953,046	2,762,473	318,267	24,337,762
Wayne	1983	239,178,698	30,094,791	25,602,487	116,110,553	76,333,118	10,445,634	583,943,742
	1984	269,637,530	43,455,345	27,587,817	104,737,059	74,248,637	10,313,764	630,632,428
Wexford	1983	1,144,524	8,314	641,646	1,040,229	406,295	112,299	3,868,640
	1984	1,013,266	225,897	227,083	1,545,111	361,239	89,099	4,185,905
MICHIGAN	1983	349,897,912	46,398,902	95,321,213	390,450,917	154,467,007	23,644,447	1,256,596,290
	1984	503,802,982	76,869,460	98,517,632	426,461,174	161,847,730	24,571,208	1,529,970,498

SOURCE: Michigan Department of Social Services, Medical Assistance (Medicaid) Fiscal Year 1983 (Lansing: 1983 and 1984), Table 9.

a. Totals for 1983 exclude gross adjustments of $43,949,466, accounting adjustments of $117,660, buy-in expenditures of $9,709,932, HMO expenditures of $49,756,835 and screening costs of $5,490,931. Totals for 1984 excludes gross adjustments of $61,254,598, accounting adjustments of $55,703, buy-in expenditures of $11,037,888, HMO expenditures of $60,906,335, and screening expenditures of $6,301,448.

TABLE VII-23. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER AID TO FAMILIES WITH DEPENDENT CHILDREN, EMERGENCY ASSISTANCE, GENERAL ASSISTANCE, AND FOOD STAMPS IN MICHIGAN, BY COUNTY: JANUARY 1983 AND 1984 (cont.)

	1983			1984		
		Payments			Payments	
County	Number of recipients	Total ($1,000)	Average per recipient	Number of recipients	Total ($1,000)	Average per recipient
Iron	1,414	145.3	$ 102.76	1,226	135.4	$110.45
Isabella	4,543	597.8	131.59	4,386	644.7	147.00
Jackson	16,577	2,515.1	151.72	15,211	2,462.3	161.88
Kalamazoo	21,394	3,141.1	146.82	19,927	3,189.3	160.05
Kalkaska	2,343	267.3	114.08	1,795	220.2	122.68
Kent	38,799	5,286.1	136.24	34,845	5,124.2	147.06
Keweenaw	238	23.5	98.55	173	19.5	112.45
Lake	2,250	301.1	133.81	2,187	319.1	145.91
Lapeer	7,312	1,013.7	138.64	5,879	871.7	148.28
Leelanau	733	60.9	83.08	729	80.0	109.73
Lenawee	9,502	1,391.5	146.44	8,094	1,242.9	153.55
Livingston	5,897	862.0	146.17	4,669	752.6	161.19
Luce	1,197	128.1	106.98	1,081	126.4	116.92
Mackinac	1,447	1,38.8	95.92	1,413	153.0	108.24
Macomb	40,213	6,016.8	149.62	31,189	5,007.6	160.56
Manistee	3,198	459.6	143.72	2,796	447.7	160.12
Marquette	7,061	915.2	129.62	5,893	822.9	139.64
Mason	3,199	400.5	125.18	3,127	409.2	130.85
Mecosta	3,438	434.6	126.41	3,485	478.4	137.26
Menominee	2,813	353.6	125.72	2,419	326.9	135.13
Midland	5,757	838.6	145.67	5,930	916.6	154.57
Missaukee	1,379	168.6	122.27	1,223	158.9	129.96
Monroe	13,007	2,010.3	154.56	11,693	1,957.6	167.42
Montcalm	5,687	700.9	123.25	5,406	705.4	130.49
Montmorency	1,465	187.8	128.21	1,183	170.7	144.33
Muskegon	22,812	2,808.3	123.11	22,964	578.1	155.81
Newaygo	5,113	641.8	125.52	4,729	633.2	133.90
Oakland	62,153	9,952.3	160.13	51,513	8,829.2	171.40
Oceana	3,599	444.9	123.62	3,212	423.3	131.79
Ogemaw	3,446	443.2	128.63	3,376	490.8	145.37
Ontonagon	1,282	154.6	120.56	1,181	168.9	143.01
Osceola	2,756	352.5	127.90	2,717	382.8	140.89
Oscoda	1,145	147.6	128.88	1,147	162.3	141.53
Otsego	1,515	196.0	129.39	1,457	202.4	138.90
Ottawa	6,317	807.5	127.83	5,204	714.2	137.24

TABLE VII-23. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER AID TO FAMILIES WITH DEPENDENT CHILDREN, EMERGENCY ASSISTANCE, GENERAL ASSISTANCE, AND FOOD STAMPS IN MICHIGAN, BY COUNTY: JANUARY 1983 AND 1984 (cont.)

	1983			1984		
		Payments			Payments	
County	Number of recipients	Total ($1,000)	Average per recipients	Number of recipients	Total ($1,000)	Average per recipient
Presque Isle	1,387	155.3	$ 111.95	1,198	145.5	$121.44
Roscommon	3,153	444.4	140.95	2,905	444.4	152.97
Saginaw	38,105	6,275.2	164.68	34,901	6,211.2	177.97
St. Clair	17,941	2,833.3	157.92	16,006	2,717.3	169.77
St. Joseph	5,419	740.4	136.63	5,184	736.5	142.06
Sanilac	5,157	717.8	139.18	4,380	662.8	151.33
Schoolcraft	1,354	157.5	116.30	1,220	158.1	129.61
Shiawasse	8,203	1,217.6	148.43	7,376	1,158.4	157.05
Tuscola	6,328	873.4	138.02	5,581	848.5	152.03
Van Buren	11,320	1,401.0	123.76	10,404	1,440.5	138.45
Washtenaw	17,160	2,731.2	159.16	15,494	2,579.5	166.49
Wayne	478,776	84,755.7	177.03	446,388	84,116.5	188.44
Wexford	3,514	439.6	125.11	3,056	392.2	128.33
TOTAL	1,188,054	188,125.1	158.35	1,082,713	183,741.7	169.70

SOURCE: Michigan Department of Social Services, Assistance Payments Statistics (Lansing: monthly), January 1984 and January 1985, Tables 2 and 1 respectively.

TABLE VII-24. TRANSFER PAYMENTS PER CAPITA AND RANKING OF MICHIGAN COUNTIES ACCORDING TO TRANSFER PAYMENTS AS A PERCENTAGE OF PERSONAL INCOME: 1983

County	Per capita	Percentage	County	Per capita	Percentage
Lake	276	42.3	Menominee	184	20.7
Keweenaw	315	40.1	Emmet	210	20.6
Montmorency	316	39.0	Otsego	189	20.4
Alcona	287	37.1	Muskegon	197	20.3
Roscommon	306	36.3	Wayne	229	20.1
Ontonagon	254	35.5	Marquette	174	19.3
Gogebic	287	33.8	Hillsdale	179	19.2
Ogemaw	230	32.9	Calhoun	211	19.0
Oscoda	214	32.6	Tuscola	175	19.0
Clare	246	32.2	Branch	185	18.7
Baraga	239	30.9	Berrien	188	18.2
Luce	295	30.5	Shiawassee	183	18.1
Schoolcraft	250	30.2	Ionia	160	17.9
Iron	282	30.0	Gratiot	174	17.8
Chippewa	230	29.8	St. Clair	188	17.5
Gladwin	221	29.0	Leelanau	181	17.4
Cheboygan	229	28.4	St. Joseph	174	17.3
Crawford	203	28.1	Isabella	142	17.2
Houghton	222	28.0	Grand Traverse	185	17.2
Arenac	218	27.5	Bay	179	17.1
Osceola	201	27.3	Saginaw	179	17.0
Presque Isle	218	27.2	Jackson	176	17.0
Alger	212	26.7	Lenawee	175	16.8
Benzie	226	26.2	Lapeer	163	16.5
Mackinac	235	26.1	Cass	154	15.5
Antrim	220	26.1	Genesee	184	15.5
Missaukee	182	26.0	Allegan	140	15.1
Delta	226	25.2	Barry	142	15.1
Iosco	213	24.8	Ingham	176	14.9
Oceana	197	24.8	Monroe	155	14.6
Alpena	222	24.8	Kent	157	13.7
Mecosta	161	24.7	Kalamazoo	160	13.3
Wexford	207	24.7	Macomb	152	12.0
Manistee	221	24.5	Ottawa	132	12.0
Sanilac	217	23.8	Washtenaw	159	11.8
Mason	193	23.2	Clinton	118	11.0
Kalkaska	191	23.1	Eaton	124	10.8
Charlevoix	209	22.8	Midland	128	10.5
Van Buren	200	22.2	Livingston	120	10.4
Montcalm	198	22.1	Oakland	161	10.2
Newaygo	179	21.9			
Huron	211	21.4	Michigan	186	16.2
Dickinson	230	21.3	United States	173	14.8

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VII-25. MICHIGAN COUNTIES RANKED ACCORDING TO SOCIAL SECURITY BENEFITS (OLD AGE, SURVIVORS, AND DISABILITY INSURANCE) AS A PERCENTAGE OF TOTAL PERSONAL INCOME: 1983

County	Dollar amount ($000)	As a percentage of income	County	Dollar amount ($000)	As a percentage of income
Keweenaw	3,402	21.7	Otsego	13,255	9.4
Lake	11,364	21.0	Emmet	22,000	9.4
Montmorency	13,240	20.9	Van Buren	55,201	9.2
Roscommon	29,390	19.6	Muskegon	134,021	9.0
Alcona	15,029	19.2	Hillsdale	32,655	8.5
Oscoda	7,392	15.9	Berrien	143,478	8.5
Gogebic	25,657	15.8	Branch	32,251	8.4
Iron	20,078	15.7	Tuscola	41,749	8.1
Ogemaw	18,932	15.6	St. Joseph	45,761	8.1
Clare	28,148	15.2	Gratiot	30,803	8.1
Ontonagon	10,534	14.9	Leelanau	11,665	7.9
Gladwin	22,256	14.0	Grand Traverse	47,073	7.7
Presque Isle	15,431	13.9	Ionia	35,295	7.6
Schoolcraft	9,520	13.5	Lenawee	69,603	7.6
Baraga	8,723	13.4	Jackson	114,596	7.6
Osceola	19,609	13.4	Bay	90,781	7.4
Alger	9,420	13.2	Calhoun	113,229	7.4
Arenac	15,616	13.0	Marquette	47,200	7.3
Antrim	17,568	12.6	Wayne	1,827,447	7.2
Crawford	9,281	12.6	St. Clair	105,386	7.1
Houghton	36,984	12.6	Allegan	54,292	7.1
Luce	7,113	12.5	Saginaw	164,979	7.0
Missaukee	8,847	12.0	Barry	29,462	6.8
Cheboygan	19,723	11.7	Shiawassee	47,667	6.8
Manistee	23,462	11.6	Cass	32,649	6.8
Benzie	11,294	11.6	Kent	325,486	6.3
Mackinac	10,639	11.6	Monroe	83,202	5.9
Iosco	28,803	11.5	Genesee	306,166	5.9
Chippewa	25,177	11.4	Isabella	25,727	5.8
Alpena	31,714	11.2	Ottawa	101,812	5.8
Oceana	19,644	11.2	Kalamazoo	141,143	5.6
Wexford	22,986	10.7	Macomb	484,121	5.6
Mason	23,072	10.7	Lapeer	37,405	5.5
Charlevoix	19,186	10.6	Ingham	170,179	5.4
Menominee	23,757	10.3	Midland	42,072	4.6
Huron	36,309	10.2	Oakland	717,487	4.5
Dickinson	27,089	10.1	Clinton	26,783	4.5
Mecosta	24,454	10.1	Livingston	49,243	4.3
Sanilac	36,144	10.0	Eaton	42,461	4.2
Kalkaska	9,184	9.9	Washtenaw	131,388	3.8
Newaygo	28,771	9.9			
Delta	34,040	9.7	Michigan	6,887,867	6.6
Montcalm	41,712	9.5	United States	64,362,000	6.0

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VII-26. MICHIGAN COUNTIES RANKED ACCORDING TO PUBLIC ASSISTANCE (WELFARE) BENEFITS AS A PERCENTAGE OF TOTAL PERSONAL INCOME: 1983

County	Dollar amount ($000)	As a percentage of income	County	Dollar amount ($000)	As a percentage of income
Lake	3,943	7.3	Bay	29,061	2.4
Clare	9,032	4.9	Mason	5,093	2.4
Ogemaw	5,570	4.6	Tuscola	12,037	2.3
Gladwin	6,871	4.3	Shiawassee	15,983	2.3
Wayne	1,063,943	4.2	Gratiot	8,683	2.3
Arenac	5,011	4.2	Presque Isle	2,516	2.3
Alcona	3,222	4.1	Delta	7,863	2.2
Crawford	3,035	4.1	Iosco	5,587	2.2
Montmorency	2,529	4.0	Cass	10,753	2.2
Oscoda	1,832	3.9	Mackinac	2,021	2.2
Baraga	2,432	3.7	Ionia	10,174	2.2
Luce	2,094	3.7	Charlevoix	3,939	2.2
Osceola	5,251	3.6	Jackson	32,649	2.2
Kalkaska	3,187	3.4	Iron	2,684	2.1
Oceana	6,000	3.4	Lenawee	19,014	2.1
Roscommon	5,087	3.4	Lapeer	14,077	2.1
Van Buren	20,159	3.4	Isabella	8,989	2.0
Saginaw	76,749	3.3	Otsego	2,863	2.0
Schoolcraft	2,294	3.3	Menominee	4,696	2.0
Chippewa	7,158	3.2	Huron	7,216	2.0
Muskegon	47,410	3.2	Ingham	62,047	2.0
Missaukee	2,276	3.1	St. Joseph	10,885	1.9
Newaygo	8,948	3.1	Barry	7,973	1.8
Berrien	52,093	3.1	Monroe	25,408	1.8
Wexford	6,584	3.1	Marquette	11,272	1.7
Alpena	8,466	3.0	Emmet	3,924	1.7
Genesee	151,321	2.9	Kalamazoo	42,367	1.7
Cheboygan	4,841	2.9	Allegan	12,356	1.6
Calhoun	43,020	2.8	Dickinson	4,111	1.5
Houghton	8,229	2.8	Kent	73,510	1.4
Alger	1,941	2.7	Grand Traverse	8,169	1.3
Sanilac	9,752	2.7	Midland	11,121	1.2
Benzie	2,641	2.7	Washtenaw	39,281	1.1
Manistee	5,399	2.7	Livingston	11,737	1.0
Ontonagon	1,841	2.6	Eaton	10,115	1.0
Keweenaw	401	2.6	Macomb	87,441	1.0
Gogebic	4,067	2.5	Clinton	5,874	1.0
Mecosta	6,068	2.5	Oakland	133,613	0.8
Hillsdale	9,378	2.4	Leelanau	1,113	0.8
Montcalm	10,682	2.4	Ottawa	12,702	0.7
Antrim	3,384	2.4			
St. Clair	35,489	2.4	Michigan	2,449,684	2.4
Branch	9,137	2.4	United States	39,170,000	1.4

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VII-27. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER THE SUPPLEMENTAL SECURITY INCOME PROGRAM IN MICHIGAN, BY COUNTY: 1983 AND 1984

	Average monthly					
	1983			1984		
		Payments			Payments	
County	Number of recipients	Total ($000)	Per recipient	Number of recipients	Total ($000)	Per recipient
Alcona	151	$26.2	$173.68	158	29.6	$187.63
Alger	185	38.4	207.31	191	41.5	217.40
Allegan	774	151.4	195.61	830	182.0	219.27
Alpena	437	79.6	182.06	457	98.2	214.95
Antrim	237	47.6	200.70	266	61.8	232.14
Arenac	258	55.0	213.33	266	57.7	216.86
Baraga	196	32.6	166.36	202	38.9	192.41
Barry	363	71.0	195.48	406	89.2	219.62
Bay	1,193	243.7	204.31	1,278	291.3	227.91
Benzie	178	38.0	213.34	201	46.2	230.05
Berrien	2,774	550.6	198.47	3,066	685.8	223.69
Branch	622	87.0	139.91	591	95.5	161.61
Calhoun	2,082	451.7	216.95	2,230	521.3	233.76
Cass	524	97.3	185.63	536	112.4	209.72
Charlevoix	241	41.8	173.31	245	48.2	196.59
Cheboygan	283	53.3	188.19	300	59.5	198.24
Chippewa	552	114.9	208.16	585	132.3	226.10
Clare	372	75.7	203.59	473	104.5	221.00
Clinton	225	41.0	182.42	259	51.6	199.38
Crawford	92	16.3	177.24	128	25.1	196.09
Delta	635	114.5	180.30	664	130.2	196.11
Dickinson	298	45.5	152.53	305	54.8	179.58
Eaton	495	104.9	211.92	514	114.9	223.54
Emmet	280	53.2	190.11	304	62.9	206.94
Genesee	5,224	1,145.5	219.28	5,808	1,424.8	245.32
Gladwin	282	59.0	209.38	296	68.0	229.88
Gogebic	404	67.0	165.93	415	77.6	186.97
Grand Traverse	712	155.3	218.13	797	179.4	225.06
Gratiot	615	122.9	199.96	660	145.7	220.80
Hillsdale	496	106.5	214.80	526	127.6	242.58
Houghton	699	123.7	176.96	707	136.8	193.55
Huron	524	111.3	212.39	526	124.5	236.62
Ingham	2,652	566.3	213.55	2,988	711.9	238.26
Ionia	533	110.2	206.78	566	129.1	228.15
Iosco	249	44.9	180.15	265	53.9	203.39

TABLE VII-27. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER THE SUPPLEMENTAL SECURITY INCOME PROGRAM IN MICHIGAN, BY COUNTY: 1983 AND 1984 (cont.)

	Average monthly					
	1983			1984		
		Payments			Payments	
County	Number of recipients	Total ($000)	Per recipient	Number of recipients	Total ($000)	Per recipient
Iron	299	$48.7	$162.87	289	52.6	181.96
Isabella	745	105.7	141.89	800	138.1	172.69
Jackson	1,562	326.2	208.82	1,743	401.4	230.28
Kalamazoo	2,242	466.1	207.88	2,538	585.7	230.79
Kalkaska	169	36.3	215.01	191	43.4	227.32
Kent	4,771	983.5	206.14	5,130	1,169.1	227.89
Keweenaw	34	5.0	146.85	36	6.0	166.15
Lake	255	41.1	161.16	269	45.7	169.93
Lapeer	817	145.7	178.29	741	149.2	201.38
Leelanau	79	12.4	157.50	76	13.9	182.24
Lenawee	924	193.5	209.37	1,000	230.7	230.68
Livingston	397	80.9	203.67	450	100.6	223.55
Luce	276	43.5	157.48	258	45.7	177.15
Mackinac	188	32.1	170.87	195	37.9	194.22
Macomb	3,796	756.3	199.23	4,161	927.4	222.89
Manistee	229	40.9	178.56	257	51.2	199.16
Marquette	667	124.8	187.18	704	143.7	204.15
Mason	309	56.6	183.25	311	56.9	182.86
Mecosta	373	73.6	197.44	391	86.1	220.09
Menominee	319	50.5	158.36	374	63.6	170.17
Midland	492	105.2	213.83	539	126.2	234.11
Missaukee	138	28.2	204.47	144	34.4	239.16
Monroe	910	170.6	187.44	994	212.2	213.45
Montcalm	728	151.1	207.66	745	169.5	227.55
Montmorency	130	18.9	145.63	156	27.9	178.69
Muskegon	2,450	465.6	190.05	2,596	556.0	214.18
Newaygo	474	83.9	177.04	474	93.3	196.81
Oakland	5,788	1,235.4	213.43	6,764	1,584.4	234.25
Oceana	293	52.7	179.76	339	67.2	198.36
Ogemaw	349	51.9	148.61	369	69.1	187.32
Ontonagon	193	34.1	176.76	213	41.3	194.12
Osceola	355	72.7	204.65	414	90.9	219.61
Oscoda	85	13.9	163.36	95	17.2	181.14
Otsego	201	46.7	232.46	228	60.0	263.10
Ottawa	760	159.1	209.33	779	173.8	223.05

TABLE VII-27. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER THE SUPPLEMENTAL SECURITY INCOME PROGRAM IN MICHIGAN, BY COUNTY: 1983 AND 1983 (cont.)

	Average monthly					
	1983			1984		
		Payments			Payments	
County	Number of recipients	Total ($000)	Per recipient	Number of recipients	Total ($000)	Per recipient
Presque Isle	279	$52.1	$186.75	286	58.8	205.51
Roscommon	221	44.6	201.93	216	46.2	213.94
Saginaw	2,688	599.9	223.17	2,931	725.6	247.58
St. Clair	1,298	258.7	199.31	1,408	327.6	232.64
St. Joseph	546	108.4	198.56	588	132.1	224.64
Sanilac	470	104.6	222.60	491	116.8	237.96
Schoolcraft	224	49.2	219.50	208	50.4	242.11
Shiawassee	658	139.5	211.96	697	160.1	229.74
Tuscola	787	135.6	172.34	800	152.5	190.59
Van Buren	1,103	228.3	207.01	1,171	266.6	227.67
Washtenaw	1,857	420.8	226.63	2,158	526.5	243.99
Wayne	38,431	7,959.9	207.12	41,689	9,730.4	233.40
Wexford	416	76.8	184.60	443	91.4	206.35
TOTAL	106,612	21,735.8	203.88	115,858	26,372.3	227.63

SOURCE: Michigan Department of Social Services, Program Statistics (Lansing: annually), 1983, and Assistance Payments Statistics (January 1985), Table 17.

NOTE: Social Security Income comprises programs formerly under aid to the blind, aid to the aged, and aid to the disabled. The dollar amounts indicated include the federal payment as well as state supplementation.

TABLE VII-28. NUMBER AND PERCENTAGE OF MICHIGAN HOUSEHOLDS WITH SOCIAL SECURITY INCOME AND WITH PUBLIC ASSISTANCE INCOME, BY COUNTY: CENSUS 1980

County	Social Security		Public Assistance	
	Number	Percentage	Number	Percentage
Alcona	1,628	43.6	334	8.9
Alger	1,049	32.0	264	8.0
Allegan	6,874	25.1	2,011	7.3
Alpena	3,222	28.8	1,140	10.2
Antrim	1,926	33.5	388	6.7
Arenac	1,733	34.0	581	11.4
Baraga	1,165	39.7	314	10.7
Barry	4,086	26.6	1,104	7.1
Bay	10,840	26.2	3,941	9.5
Benzie	1,340	33.3	294	7.3
Berrien	16,094	26.5	7,076	11.6
Branch	3,981	28.3	1,125	8.0
Calhoun	13,464	26.3	5,139	10.0
Cass	4,823	28.0	1,617	9.3
Charlevoix	2,039	28.7	453	6.3
Cheboygan	2,434	33.2	585	7.9
Chippewa	3,067	30.5	1,085	10.8
Clare	3,397	39.2	1,011	11.6
Clinton	3,691	20.7	926	5.2
Crawford	1,107	32.8	278	8.2
Delta	4,260	31.5	1,089	8.0
Dickinson	3,334	34.8	663	6.9
Eaton	5,825	19.3	1,575	5.2
Emmet	2,285	28.2	494	6.1
Geneesee	33,874	21.8	17,175	11.0
Gladwin	2,649	37.0	858	12.0
Gogebic	3,423	44.7	714	9.3
Grand Traverse	4,647	24.1	1,255	6.5
Gratiot	3,563	26.7	1,138	8.5
Hillsdale	4,198	29.2	1,196	8.3
Houghton	5,211	40.0	1,320	10.1
Huron	4,416	34.5	929	7.2
Ingham	18,633	19.5	8,308	8.7
Ionia	4,347	26.8	1,374	8.4
Iosco	3,298	32.2	759	7.4

TABLE VII-28. NUMBER AND PERCENTAGE OF MICHIGAN HOUSEHOLDS WITH SOCIAL SECURITY INCOME AND WITH PUBLIC ASSISTANCE INCOME, BY COUNTY: CENSUS 1980 (cont.)

County	Social Security		Public Assistance	
	Number	Percentage	Number	Percentage
Iron	2,412	44.3	430	7.9
Isabella	3,898	24.2	1,256	7.8
Jackson	13,174	25.8	4,451	8.7
Kalamazoo	15,735	20.9	5,796	7.6
Kalkaska	1,131	29.8	353	9.3
Kent	35,742	22.9	11,503	7.3
Keweenaw	452	55.1	84	10.2
Lake	1,475	48.4	492	16.1
Lapeer	4,522	21.3	1,577	7.4
Leelanau	1,468	29.2	184	3.6
Lenawee	7,790	25.7	2,397	7.9
Livingston	5,980	19.1	1,662	5.3
Luce	744	33.5	186	8.3
Mackinac	1,328	36.0	363	9.8
Macomb	48,096	20.9	12,619	5.4
Manistee	3,036	35.5	884	10.3
Marquette	5,817	23.6	1,595	6.4
Mason	3,240	33.0	706	7.2
Mecosta	3,280	29.1	910	8.0
Menominee	3,076	33.1	696	7.4
Midland	4,565	18.6	1,816	7.4
Missaukee	1,208	34.9	338	9.7
Monroe	9,899	22.8	3,516	8.1
Montcalm	5,021	30.3	1,551	9.3
Montmorency	1,156	41.1	252	8.9
Muskegon	15,420	28.2	6,391	11.7
Newaygo	3,916	32.0	1,305	10.6
Oakland	73,682	20.6	17,436	4.8
Oceana	2,388	32.0	799	10.7
Ogemaw	2,267	37.9	608	10.1
Ontonagon	1,332	37.3	306	8.5
Osceola	2,165	33.1	684	10.4
Oscoda	1,043	40.8	194	7.5
Otsego	1,395	28.3	292	5.9
Ottawa	10,682	21.1	2,135	4.2

TABLE VII-28. NUMBER AND PERCENTAGE OF MICHIGAN HOUSEHOLDS WITH SOCIAL SECURITY INCOME AND WITH PUBLIC ASSISTANCE INCOME, BY COUNTY: CENSUS 1980 (cont.)

County	Social Security		Public Assistance	
	Number	Percentage	Number	Percentage
Presque Isle	1,885	37.4	404	8.0
Roscommon	2,889	44.0	582	8.8
Saginaw	18,423	24.1	9,100	11.9
St. Clair	12,759	26.9	4,649	9.8
St. Joseph	5,651	28.6	1,586	8.0
Sanilac	4,710	33.7	1,179	8.4
Schoolcraft	1,139	37.0	300	9.7
Shiawassee	5,643	24.1	1,870	7.9
Tuscola	4,683	25.6	1,560	8.5
Van Buren	6,802	29.4	2,895	12.5
Washtenaw	14,637	15.6	5,249	5.6
Wayne	215,417	26.1	117,733	14.2
Wexford	2,689	29.7	919	10.1
MICHIGAN	787,785	24.6	302,306	9.4

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF3, computer tape.

Note: Income data pertain to the year 1979.

VIII. LAW ENFORCEMENT AND THE COURTS

The Michigan Department of State Police compiles data on criminal offenses, arrests, and stolen property within the state of Michigan. It publishes this data in the monthly Uniform Crime Report Bulletin a semiannual crime summary, and the annual Uniform Crime Report, which is usually published in the spring. From 1959 through 1970, the information now contained in the Uniform Crime Report was found in the Department of State Police's Michigan Law Enforcement Officials Report on Crime. Michigan began collecting such data in 1959.

National data on crime and comparisons with other states are found in the Federal Bureau of Investigation's Uniform Crime Report for the United States.

The Michigan Department of State Police collects data from its units in the field, county sheriff departments, and other police units of local governments. Its statistics are more comprehensive than those published in the federal Uniform Crime Report, especially since less is now being published in that document. The tables that follow present considerable information not included in this year's federal Uniform Crime Report. For additional information, the Uniform Reporting Section of the Michigan Department of State Police should be contacted.

The Federal Bureau of Investigation divides crimes into two categories: Index Offenses and Nonindex Offenses. The crime rate is the total index crime per 100,000 population. Crimes classified as index offenses are usually more serious and/or are based on data with a high degree of interpreting and reporting reliability. Index Offenses are murder and nonnegligent manslaughter; rape; robbery in the form of stealing from a person; aggravated assault; burglary, which is any unlawful entry to commit a felony or theft; larceny, which is theft excluding motor vehicle theft (listed separately) and does not include con games, embezzlement, or fraud; and motor vehicle theft (the term has been used interchangeably with auto theft), which includes all cases in which a motor vehicle is stolen or driven away. All other offenses are classified under Nonindex Offenses. Sex offenses which do not include rape or prostitution and commercialized vice are listed separately. Offenses against family and children include nonsupport, desertion, neglect, and abuse. The term "liquor laws" as used here includes all violations of the liquor laws except driving under the influence and drunkenness, which are listed separately.

Offenses are crimes committed; arrests refer to the number of individuals taken into custody and formally charged with violation of the law. An offense is cleared by arrest when at least one person is arrested, charged, and given to the court for prosecution. Data concerning offenses include attempts to commit a crime whether or not successfully executed. It might be noted that perhaps one-half of all crime goes unreported.

VIII. LAW ENFORCEMENT AND THE COURTS

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TABLE VIII-3. SELECTED NON-INDEX CRIME OFFENSES IN MICHIGAN, BY TYPE: 1979-1983

Offenses	1979	1980	1981	1982	1983
Negligent manslaughter	a	a	a	50	101
Assault (non-aggravated)	58,478	59,648	58,881	60,227	64,882
Forgery & counterfeiting	a	a	a	5,790	5,245
Fraud	a	a	a	30,109	27,149
Embezzlement	a	a	a	1,110	995
Stolen property	a	a	a	7,939	8,627
Vandalism	a	a	a	139,307	144,180
Weapons (carry, possession, etc.)	7,192	6,952	6,329	5,444	5,498
Prostitution & common law vice	a	a	a	1,771	1,354
Sex offenses (except rape and prostitution)	a	a	a	7,443	7,841
Narcotic laws	a	a	a	18,118	17,738
Gambling	a	a	a	274	359
Family and children	a	a	a	4,301	3,674
Driving under influence, alcohol or narcotics	45,076	47,661	51,390	47,035	59,143
Liquor laws	a	a	a	21,270	20,126
Disorderly conduct	a	a	a	73,173	75,925
All other (includes drunkeness and vagrancy	470,392	513,385	488,343	126,615	126,629
Arson	7,745	7,077	8,812	b	b
Non-index total	573,469	634,723	613,755	545,976	569,466

SOURCE: Michigan Department of State Police, Uniform Crime Report (East Lansing: annually).

a. Data not disaggregated from totals.

b. As of 1979, arson was officially classified as an index crime. However, for purposes of this table, it is grouped with non-index crime offenses until 1982.

TABLE VIII-4. SELECTED NON-INDEX CRIME OFFENSES PER 100,000 INHABITANTS IN MICHIGAN: 1979-1983

Offenses	1979	1980	1981	1982	1983
Negligent manslaughter	a	a	a	.5	1.09
Assault (non-aggravated)	635.1	645.6	636.0	650.5	700.8
Forgery & counterfeiting	a	a	a	62.5	56.7
Fraud	a	a	a	325.2	293.2
Embezzlement	a	a	a	12.0	10.8
Stolen property	a	a	a	85.8	93.2
Vandalism	a	a	a	1,504.7	1,557.3
Weapons (carry, possession, etc.)	78.1	75.2	69.0	58.8	59.4
Prostitution & common law vice	a	a	a	19.1	14.6
Sex offenses (except rape and prostitution)	a	a	a	80.4	84.7
Narcotic laws	a	a	a	195.7	192.6
Gambling	a	a	a	3.0	3.9
Family and children	a	a	a	46.5	39.7
Driving under influence, alcohol or narcotics	489.6	515.9	555.1	508.0	638.8
Liquor laws	a	a	a	229.7	217.4
Disorderly conduct	a	a	a	790.4	820.1
All other (includes drunkeness and vagrancy	a	a	a	1,367.6	1,367.7
Arson	96.7	76.6	95.2	b	b
Non-index total	6,879.0	6,870.3	6,629.2	5,897.1	6,150.8

SOURCE: Michigan Department of State Police, Uniform Crime Report (East Lansing: annually).

NOTE: Michigan population, as determined in 1980 by the Bureau of the Census, is 9,258,344.

a. Data not disaggregated from totals.
b. As of 1979, arson was classified as an index crime. However for purposes of this table, it is grouped with non-index crime offenses until 1982.

TABLE VIII-5. PERCENT DISTRIBUTION OF INDEX CRIME OFFENSES: 1977-1983

Offense	1977	1978	1979	1980	1981	1982	1983
Larceny	54.7	54.6	55.6	55.0	52.4	52.7	52.1
Burglary	25.8	25.6	24.6	26.1	21.7	26.3	20.2
Motor vehicle theft	9.5	9.4	9.8	8.8	9.3	10.0	5.3
Aggravated assault	4.1	5.6	5.6	5.1	4.8	5,0	11.5
Robbery	5.2	3.9	3.6	3.7	3.8	4.1	6.3
Arson[a]	--	--	--	--	--	1.1	1.0
Rape	.6	.7	.7	.7	.7	.7	2.4
Murder	.2	.2	.1	.2	.1	.1	1.2

SOURCE: Michigan Department of State Police, Uniform Crime Report, (East Lansing: annually).

a. As of 1979, arson was officially classified as an index crime.

TABLE VIII-6. PERCENT DISTRIBUTION OF NON-INDEX CRIME OFFENSES: 1977-1983

Offense	1977	1978	1979	1980	1981	1982	1983
Vandalism	27.0	29.1	37.4	28.2	26.0	25.1	25.3
Drunk and disorderly	13.8	13.7	15.8	12.8	12.2	13.6	13.7
Non-aggravated assault	8.1	9.2	11.7	9.4	9.6	12.0	11.4
Driving under the influence	5.8	6.4	9.1	7.5	8.4	8.3	10.4
Fraud and embezzlement	4.7	5.8	7.7	6.4	6.2	5.7	4.9
Liquor laws	3.2	3.2	4.7	3.6	3.7	3.8	3.5
Narcotic laws	4.7	4.0	4.4	3.7	3.7	3.4	3.1
Stolen property	--	1.2	1.6	1.2	1.3	1.5	1.5
Sex offenses	1.4	1.4	1.8	1.3	1.4	1.4	1.4
Forgery and counterfeit	--	1.0	1.2	1.2	1.1	1.8	.9
Weapons	2.0	1.2	1.4	1.1	1.0	1.0	1.0
Family and children	2.2	1.1	1.3	1.2	1.2	.8	.6
Arson[a]	1.0	1.0	1.8	--	1.4	--	--
All other	25.9	21.7	--	21.3	22.8	22.4	22.3

SOURCE: Michigan Department of State Police, Uniform Crime Report, (East Lansing: Annually).

a. As of 1979, arson was officially classified as an index crime.

TABLE VIII-7. PERCENT DISTRIBUTION OF JUVENILE ARRESTS IN MICHIGAN: 1983

Offense	Percent	Offense	Percent
Larceny	30.0	Drunk and disorderly	3.3
Curfew/loitering and runaways	13.5	Narcotic laws	2.8
		Aggravated assault	2.6
Burglary	12.4	Stolen property	2.5
Vandalism	7.7	Motor vehicle theft	2.3
Non-aggravated assault	4.1	Robbery	2.1
Liquor laws	3.6	Weapons	1.2
		All others	11.9

SOURCE: Michigan Department of State Police, 1983 Uniform Crime Report, p. 33.

TABLE VIII-8. PERCENT DISTRIBUTION OF ADULT ARRESTS IN MICHIGAN: 1983

Offense	Percent	Offense	Percent
Driving under influence	19.4	Stolen property	2.4
Larceny	11.7	Weapons	2.1
Liquor laws	10.3	Fraud & embezzlement	2.0
Drunk and disorderly	5.9	Vandalism	1.9
Narcotic laws	5.7	Prostitution	1.5
Burglary	4.5	Robbery	1.5
Aggravated assault	3.1	Motor vehicle theft	1.3
		All others	23.7

SOURCE: Michigan Department of State Police, 1983 Uniform Crime Report, p. 33.

TABLE VIII-1. CRIMINAL INDEX OFFENSES IN MICHIGAN BY TYPE: 1964-1983

Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny and theft	Motor vehicle theft	Arson[a]	Total crime index
1964	250	1,217	6,766	8,650	45,871	129,791	21,172	--	213,717
1965	344	1,407	7,881	10,341	55,017	133,516	24,208	--	232,714
1966	365	1,844	12,423	10,641	72,333	153,895	27,612	--	279,113
1967	517	1,848	16,071	12,826	91,264	173,095	33,415	--	329,036
1968	614	2,105	17,608	13,802	88,234	167,783	34,732	--	324,878
1969	726	2,231	22,880	15,080	104,177	201,466	41,594	--	388,154
1970	831	2,402	30,758	17,099	139,398	253,258	41,184	--	484,930
1971	938	2,405	29,698	18,647	151,357	264,980	44,720	--	512,745
1972	964	2,652	26,248	20,440	143,034	248,201	42,890	--	484,429
1973	1,163	3,166	25,521	23,001	142,304	247,785	49,234	--	492,092
1974	1,170	3,370	30,657	24,739	172,828	302,301	56,599	--	591,664
1975	1,042	3,477	32,354	25,751	173,134	327,367	59,755	--	622,880
1976	1,001	3,281	30,241	24,154	151,207	321,192	55,688	--	586,764
1977	853	3,537	23,834	24,828	138,299	285,432	49,539	--	532,011
1978	862	3,614	20,192	28,661	130,716	279,261	47,995	--	511,301
1979	810	4,085	20,168	31,261	138,074	312,643	55,142	--	562,183
1980	941	4,267	22,363	30,760	158,944	337,609	53,562	--	608,446
1981	863	4,353	23,644	29,970	170,372	339,676	58,213	--	635,903
1982	870	4,083	24,470	28,952	162,457	326,283	61,252	7,056	615,423
1983	917	4,553	26,208	31,001	156,525	307,159	67,235	8,234	601,832

SOURCE: Michigan Department of State Police, 1983 Uniform Crime Report (East Lansing: annually), p. 84; and Michigan Law Enforcement Officials Report on Crime, 1968 through 1970 (East Lansing: annually). and special release.

a. Arson was not recorded as an index offense until 1982.

TABLE VIII-2. CRIMINAL INDEX OFFENSES PER 100,000 INHABITANTS IN MICHIGAN: 1964-1983

Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny and theft	Motor vehicle theft	Arson[a]	Total crime index
1964	3.1	14.9	82.6	105.7	560.3	1,585.3	258.6	--	2,610.4
1965	4.1	16.8	94.3	123.7	658.3	1,597.7	289.7	--	2,784.7
1966	4.3	21.7	145.0	125.0	849.8	1,808.0	324.4	--	3,279.0
1967	6.0	21.4	186.2	148.6	1,057.5	2,005.7	387.2	--	3,812.7
1968	7.1	24.2	202.5	158.7	1,014.7	1,929.4	399.4	--	3,736.0
1969	8.3	25.4	260.6	171.7	1,186.4	2,294.3	473.7	--	4,420.4
1970	9.3	27.0	345.6	192.1	1,566.1	2,845.3	462.7	--	5,448.0
1971	10.4	26.7	330.1	207.3	1,682.5	2,945.5	497.1	--	5,699.7
1972	10.7	29.4	291.2	226.8	1,587.0	2,753.8	475.9	--	5,374.8
1973	11.9	34.9	281.7	253.9	1,570.5	2,734.6	543.4	--	5,430.9
1974	12.8	37.0	336.3	271.4	1,895.7	3,315.8	620.8	--	6,489.7
1975	11.4	38.0	353.3	281.2	1,890.7	3,575.1	652.6	--	6,802.2
1976	11.2	36.0	332.2	265.3	1,660.9	3,528.0	611.7	--	6,445.1
1977	9.3	38.7	261.1	272.0	1,514.9	3,126.7	542.7	--	5,765.4
1978	9.9	39.3	219.7	311.9	1,422.5	3,039.1	522.3	--	5,564.3
1979	8.8	44.4	219.1	339.5	1,499.7	3,395.7	598.9	--	6,106.0
1980	10.2	46.2	242.1	332.9	1,720.4	3,654.3	579.8	--	6,585.9
1981	9.0	47.0	255.0	324.0	1,840.0	3,669.0	629.0	--	6,773.0
1982	9.4	44.2	264.9	313.4	1,758.5	3,531.8	663.0	76.4	6,661.6
1983	10.0	49.3	283.7	335.6	1,694.3	3,324.8	727.8	89.1	6,514.5

SOURCE: Michigan Department of State Police, *Uniform Crime Report*, 1971 through 1982 (East Lansing: annually), pp. 9-24; and *Michigan Law Enforcement Officials Report on Crime*, 1963 through 1970 (East Lansing: annually), and special release.

NOTE: The Bureau of the Census indicates the 1980 Michigan population to be 9,238,344.

a. Arson was not recorded as an index offense until 1982.

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1981-1983

		Index crimes							
County	Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Total nonindex crimes
Alcona	1981	1	8	1	22	268	298	8	344
	1982[a]	0	1	1	11	169	225	9	259
	1983[a]	0	5	0	5	166	192	5	283
Alger	1981	0	0	4	15	151	187	16	561
	1982	1	0	4	14	112	158	8	460
	1983	0	1	4	14	86	167	9	458
Allegan	1981	1	30	32	130	600	1,444	118	4,896
	1982[a]	2	51	28	163	754	1,573	83	5,686
	1983[a]	2	52	27	171	664	1,517	118	5,646
Alpena	1981	0	9	8	39	278	845	51	1,478
	1982[a]	0	8	4	39	209	719	27	1,319
	1983	0	7	7	34	215	654	23	1,365
Antrim	1981	0	2	2	8	201	393	18	715
	1982[a]	2	4	3	8	154	306	16	568
	1983[a]	0	3	2	10	196	296	20	595
Arenac	1981	0	7	7	40	203	312	24	698
	1982	1	8	2	26	205	253	21	535
	1983	0	4	3	25	183	229	22	624
Baraga	1981	0	1	0	20	94	123	19	401
	1982[a]	0	3	1	13	93	109	14	365
	1983[a]	0	1	3	12	63	94	19	304
Barry	1981	1	17	9	68	423	932	47	2,354
	1982[a]	3	18	13	54	435	832	59	1,923
	1983	0	12	9	55	364	782	38	2,041
Bay	1981	2	28	52	189	1,403	4,024	239	7,322
	1982[a]	0	41	26	153	1,062	4,174	192	6,743
	1983[a]	5	47	50	136	1,143	3,721	138	7,454
Benzie	1981	0	0	5	27	132	391	17	1,288
	1982[a]	1	11	1	14	129	324	4	535
	1983[a]	0	10	1	24	117	333	3	638
Berrien	1981	15	107	303	808	3,063	7,879	407	18,653
	1982[a]	13	90	239	874	3,005	7,619	333	15,689
	1983[a]	3	120	271	900	2,937	7,007	323	16,056

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1981-1983 (cont.)

County	Year	Index crimes							Total nonindex crimes
		Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	
Branch	1981	0	7	5	50	369	1,198	44	2,329
	1982[a]	0	9	6	41	331	1,096	25	1,601
	1983[a]	0	14	13	38	315	821	28	1,581
Calhoun	1981	11	74	201	499	2,418	5,447	277	9,125
	1982[a]	10	37	177	439	2,488	5,470	244	7,752
	1983[a]	10	60	170	431	2,434	5,444	243	6,844
Cass	1981	1	17	17	163	689	1,608	84	2,996
	1982	2	14	9	130	603	1,445	63	2,218
	1983[a]	0	23	14	145	550	1,371	41	2,304
Charlevoix	1981	0	3	2	23	316	661	35	1,532
	1982[a]	0	10	8	25	187	580	21	1,113
	1983	0	7	2	24	201	535	26	1,299
Cheboygan	1981	2	4	6	28	383	655	34	1,515
	1982	0	2	2	30	312	563	28	1,248
	1983	0	6	3	31	306	482	18	1,051
Chippewa	1981	4	13	6	112	442	1,094	78	3,664
	1982	1	7	211	135	397	956	61	2,341
	1983[a]	1	13	8	51	403	821	40	2,397
Clare	1981	0	10	6	44	885	1,027	48	1,881
	1982[a]	8	9	7	46	619	737	31	1,504
	1983[a]	6	31	7	25	688	703	27	1,511
Clinton	1981	1	19	11	42	329	929	59	1,673
	1982[a]	0	9	9	44	329	808	47	1,684
	1983[a]	0	20	20	49	350	867	50	1,882
Crawford	1981	1	4	2	24	306	523	21	740
	1982[a]	0	5	2	20	287	480	18	547
	1983[a]	0	6	12	13	241	438	9	483
Delta	1981	1	4	0	32	412	1,007	54	1,984
	1982	1	10	1	28	340	972	42	1,704
	1983	0	6	3	39	419	975	61	1,620
Dickinson	1981	1	3	7	18	158	570	30	1,005
	1982	0	0	5	24	152	456	29	773
	1983	0	1	4	24	134	499	35	863

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1981-1983 (cont.)

County	Year	Index crimes							Total nonindex crimes
		Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	
Eaton	1981	1	17	30	87	571	2,256	111	3,267
	1982[a]	0	17	24	117	507	2,171	113	2,986
	1983[a]	0	19	42	88	615	2,069	140	3,134
Emmet	1981	0	2	9	31	310	656	55	3,183
	1982	3	7	6	33	210	837	25	3,829
	1983	0	11	7	38	223	803	30	3,934
Genesee	1981	40	273	1,165	2,993	12,230	21,929	1,684	23,441
	1982[a]	44	263	1,046	2,840	11,109	20,785	1,533	22,354
	1983[a]	44	306	1,017	2,956	10,097	18,892	1,498	23,286
Gladwin	1981	0	8	6	29	369	516	36	993
	1982	2	1	1	28	281	474	24	894
	1983[a]	0	8	5	28	302	437	15	873
Gogebic	1981	0	2	1	29	174	404	41	2,219
	1982[a]	0	3	5	34	140	403	25	1,517
	1983[a]	0	5	7	26	148	452	44	1,571
Grand Traverse	1981	0	14	16	56	679	1,925	91	4,281
	1982	1	30	19	50	454	1,640	89	3,317
	1983	1	24	25	48	557	1,718	77	4,132
Gratiot	1981	0	4	8	28	327	774	40	1,936
	1982	2	9	2	20	232	686	36	1,876
	1983	1	13	2	45	231	804	32	2,078
Hillsdale	1981	3	4	8	74	574	993	53	3,467
	1982[a]	0	8	6	76	410	817	46	1,958
	1983[a]	2	21	6	58	383	881	32	2,082
Houghton	1981	0	4	6	34	237	588	38	1,327
	1982	0	3	5	27	180	446	32	1,085
	1983	0	12	3	26	157	508	22	1,130
Huron	1981	0	3	1	45	334	764	41	2,854
	1982[a]	0	12	2	25	295	644	21	2,099
	1983[a]	0	2	1	41	294	654	30	2,314
Ingham	1981	13	161	217	843	4,541	13,000	556	18,612
	1982[a]	9	228	334	757	5,012	12,282	603	17,577
	1983[a]	8	136	308	784	4,792	11,254	505	17,214

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1981-1983 (cont.)

County	Year	Index crimes: Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Total nonindex crimes
Ionia	1981	2	15	23	142	502	1,382	81	4,147
	1982[a]	2	10	17	83	437	1,334	60	2,764
	1983[a]	2	20	17	92	394	1,177	83	3,453
Iosco	1981	3	5	7	57	389	836	41	1,788
	1982[a]	0	7	4	43	307	749	49	1,504
	1983	3	10	3	63	317	590	37	1,327
Iron	1981	0	4	7	23	148	255	23	584
	1982	0	2	1	15	75	210	11	525
	1983[a]	0	0	3	12	109	214	13	560
Isabella	1981	1	24	20	57	443	1,679	63	4,217
	1982[a]	0	27	11	55	346	1,645	51	4,143
	1983	3	18	6	49	404	1,613	59	2,775
Jackson	1981	9	101	170	842	2,591	5,810	388	14,840
	1982[a]	5	62	123	676	2,034	4,975	313	11,533
	1983[a]	12	38	102	718	1,887	4,643	242	11,213
Kalamazoo	1981	3	23	287	1,012	3,344	10,019	367	14,801
	1982[a]	9	141	258	1,658	3,233	9,818	353	15,102
	1983[a]	8	93	269	1,053	3,459	9,572	334	13,230
Kalkaska	1981	0	6	3	48	329	446	20	1,190
	1982	0	7	2	32	286	356	20	1,152
	1983	0	14	4	61	318	355	17	1,247
Kent	1981	27	290	673	1,355	7,392	13,244	1,048	30,268
	1982[a]	27	273	716	1,437	6,940	18,263	970	29,720
	1983[a]	23	296	723	1,423	6,774	17,205	1,006	30,756
Keweenaw	1981	0	0	0	4	33	27	3	94
	1982	0	0	0	4	19	19	1	78
	1983	0	0	1	3	12	19	0	85
Lake	1981	1	1	2	12	473	268	14	498
	1982	0	2	0	26	280	243	7	476
	1983	0	2	7	31	386	221	10	457
Lapeer	1981	2	18	16	89	572	1,735	107	4,080
	1982[a]	1	19	16	89	537	1,266	71	3,094
	1983[a]	1	23	9	82	484	1,229	87	2,904

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1981-1983 (cont.)

County	Year	Index crimes: Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Total nonindex crimes
Leelanau	1981	0	4	0	5	82	196	14	817
	1982	0	1	0	8	68	177	13	630
	1983	0	1	1	6	102	213	14	830
Lenawee	1981	1	16	18	117	903	2,675	150	5,427
	1982	4	16	12	98	728	2,325	100	4,604
	1983	0	24	28	103	683	2,157	85	4,876
Livingston	1981	1	23	37	152	1,382	2,744	237	6,813
	1982[a]	5	35	43	161	1,025	2,403	194	5,710
	1983[a]	1	36	30	146	934	2,063	177	5,901
Luce	1981	1	1	1	9	117	175	11	529
	1982	0	1	1	10	130	131	18	503
	1983	0	2	0	11	91	103	3	478
Mackinac	1981	2	4	4	24	262	607	18	1,240
	1982[a]	0	1	3	19	158	491	19	937
	1983	0	2	3	30	160	442	14	955
Macomb	1981	30	205	652	1,940	9,193	25,981	4,426	56,110
	1982[a]	17	178	638	2,001	7,882	26,037	4,236	49,659
	1983[a]	11	148	641	1,795	8,068	25,772	4,452	50,904
Manistee	1981	0	4	6	38	338	563	24	1,291
	1982	0	6	7	23	315	625	27	948
	1983	0	5	6	10	339	580	25	913
Marquette	1981	2	24	10	141	651	2,374	112	6,665
	1982	2	25	4	109	493	1,899	99	5,186
	1983[a]	0	28	9	175	431	1,783	95	4,843
Mason	1981	0	19	4	28	277	850	45	2,281
	1982	0	6	2	26	244	850	40	1,321
	1983[a]	1	12	1	21	274	773	42	1,047
Mecosta	1981	0	5	17	62	397	1,367	59	3,099
	1982	2	7	8	36	410	1,285	48	2,879
	1983	1	11	13	42	445	1,164	42	2,920
Menominee	1981	1	5	3	50	331	615	43	1,461
	1982	0	3	4	38	203	664	31	1,218
	1983	0	4	3	28	232	583	36	1,200

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1981-1983 (cont.)

		Index crimes							
County	Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Total nonindex crimes
Midland	1981	0	20	50	74	953	2,234	99	4,739
	1982	0	13	5	115	491	2,041	73	2,690
	1983	3	10	5	63	453	1,683	58	2,412
Missaukee	1981	0	1	1	8	115	140	7	200
	1982	0	2	0	2	90	136	7	273
	1983	0	1	1	3	95	137	5	223
Monroe	1981	4	20	67	195	1,450	2,787	375	6,615
	1982	4	20	42	158	1,247	2,975	334	4,900
	1983[a]	7	21	44	209	1,203	2,745	335	6,618
Montcalm	1981	1	19	24	55	611	1,014	67	3,527
	1982[a]	2	11	12	58	480	1,101	53	3,445
	1983[a]	2	20	9	53	564	1,043	59	3,541
Montmorency	1981	0	2	1	7	146	128	3	192
	1982	1	1	0	7	108	89	11	17
	1983	0	2	0	2	149	109	5	259
Muskegon	1981	12	78	224	1,065	3,313	8,067	316	11,644
	1982	5	68	214	1,068	3,177	7,385	276	12,487
	1983[a]	10	56	171	1,049	2,583	6,085	263	11,785
Newaygo	1981	3	19	16	45	499	743	48	1,124
	1982[a]	0	33	13	44	464	649	21	1,141
	1983[a]	2	22	9	53	474	689	32	1,381
Oakland	1981	24	289	1,484	2,486	17,073	37,441	5,452	79,246
	1982	42	259	1,570	2,553	16,264	37,604	6,516	80,447
	1983[a]	34	229	1,604	3,673	16,718	34,877	7,260	84,337
Oceana	1981	0	14	7	27	239	370	27	935
	1982[a]	1	10	3	20	159	299	14	718
	1983[a]	1	11	4	32	192	344	10	840
Ogemaw	1981	1	5	11	35	465	461	53	1,466
	1982	4	7	7	51	325	398	31	1,259
	1983[a]	1	2	1	47	372	395	27	1,322
Ontonagon	1981	0	1	1	22	66	144	13	345
	1982	0	2	0	30	54	117	8	295
	1983[a]	0	2	1	5	40	81	8	215

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1981-1983 (cont.)

		Index crimes							
County	Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Total nonindex crimes
Osceola	1981	0	4	8	29	287	341	28	1,007
	1982[a]	0	2	2	23	209	362	18	970
	1983[a]	1	1	3	30	146	371	25	972
Oscoda	1981	0	1	3	17	190	219	7	538
	1982	0	0	1	14	213	188	5	704
	1983	0	2	0	7	190	209	9	593
Otsego	1981	0	7	1	12	215	464	24	1,119
	1982	1	6	0	20	233	391	24	916
	1983	0	3	12	16	229	337	17	944
Ottawa	1981	0	29	29	125	1,030	3,443	163	6,991
	1982	7	13	22	129	912	3,182	147	6,661
	1983	2	32	21	114	851	3,006	140	7,462
Presque Isle	1981	2	5	0	12	129	199	10	293
	1982[a]	0	0	0	11	91	132	10	204
	1983	0	2	1	10	131	168	9	431
Roscommon	1981	0	12	7	25	560	725	72	1,863
	1982[a]	0	6	3	33	605	679	48	1,418
	1983[a]	1	6	6	28	445	685	58	1,388
Saginaw	1981	25	138	465	1,210	4,675	10,903	602	20,738
	1982[a]	28	135	470	1,292	4,437	10,873	486	17,677
	1983[a]	27	156	422	1,668	3,989	9,051	521	18,585
St. Clair	1981	3	44	61	242	2,191	5,088	272	13,375
	1982[a]	7	39	44	179	1,672	14,454	221	10,215
	1983[a]	4	36	51	234	1,680	4,729	252	11,117
St. Joseph	1981	3	19	19	65	474	1,480	83	4,432
	1982[a]	0	22	13	83	397	1,417	38	3,764
	1983[a]	0	28	11	65	408	1,378	58	4,083
Sanilac	1981	0	10	2	33	448	726	53	2,053
	1982[a]	0	19	7	33	382	627	28	1,423
	1983[a]	0	9	6	37	311	631	51	1,452
Schoolcraft	1981	0	3	0	24	157	169	15	618
	1982	0	1	2	21	106	173	6	446
	1983[a]	0	1	0	11	102	130	3	706

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1981-1983 (cont.)

		Index crimes							
County	Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Total nonindex crimes
Shiawassee	1981	0	39	17	101	800	2,031	87	4,132
	1982[a]	0	18	22	74	645	1,589	65	2,823
	1983[a]	0	21	15	78	652	1,446	72	2,815
Tuscola	1981	5	21	12	110	496	839	78	2,745
	1982[a]	0	14	11	65	456	899	57	2,216
	1983[a]	1	12	5	69	341	843	62	2,524
Van Buren	1981	1	40	33	247	984	2,128	152	5,768
	1982[a]	4	41	20	246	1,077	2,142	100	5,500
	1983[a]	2	79	35	246	937	1,826	105	5,301
Washtenaw	1981	16	141	257	871	4,160	11,884	1,193	20,408
	1982[a]	13	128	282	866	3,648	11,436	1,156	18,567
	1983[a]	13	95	364	1,021	3,680	11,444	1,269	21,018
Wayne	1981	577	1,608	16,723	9,889	64,087	90,178	37,091	120,901
	1982	568	1,451	17,818	8,732	66,783	87,111	40,804	103,112
	1983[a]	657	1,894	19,467	9,791	62,934	82,864	45,890	113,385
Wexford	1981	1	8	8	82	501	1,130	54	1,767
	1982	3	5	8	40	379	1,029	36	1,773
	1983	0	7	5	30	379	962	38	2,085
TOTAL	1981	863	4,353	23,644	29,970	170,372	339,676	58,213	613,755
	1982	870	4,083	24,470	28,952	162,457	326,283	61,252	545,976
	1983	917	4,553	26,208	31,001	156,525	307,159	67,235	569,466

SOURCE: Michigan Department of State Police, 1982 Uniform Crime Report, (East Lansing: annually).

a. Figures incomplete due to incomplete jurisdiction reporting.

IX. ELECTIONS AND GOVERNMENT ORGANIZATIONS

Statistics on governmental organization are collected on the occasion of each Census of Governments conducted by the U.S. Bureau of the Census. That census also is a source of considerable detail on government financing and employment, the subject of chapter X.

Other major sources of information regarding the Michigan government are the biennial *Michigan Manual*, the *Journal of the Senate*, and the *Journal of the House*. In addition, *The Book of the States* presents information on all states and is a good source for comparative statistics.

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TABLE IX-1. NUMBER OF LOCAL GOVERNMENTAL UNITS IN MICHIGAN AND THE UNITED STATES, BY TYPE: 1952, 1957, 1962, 1967, 1972, 1977, AND 1982

Type	1952	1957	1962	1967	1972	1977	1982
Michigan							
Counties	83	83	83	83	83	83	83
Municipalities	489	498	509	522	532	531	532
Townships	1,264	1,262	1,259	1,253	1,248	1,245	1,245
Special districts	84	102	99	110	139	168	184
School districts	4,845	3,214	1,866	935	647	606	601
TOTAL	6,766	5,159	3,816	2,903	2,649	2,633	2,646
United States							
Counties	3,049	3,047	3,043	3,049	3,044	3,042	3,041
Municipalities	16,778	17,167	17,997	18,043	18,517	18,862	19,083
Townships	17,202	17,214	17,144	17,105	16,991	16,822	16,748
Special districts	12,319	14,423	18,323	21,264	23,885	25,962	28,733
School districts	67,346	50,453	34,678	21,782	15,781	15,032	15,032
TOTAL	116,743	102,353	91,185	81,248	78,218	79,913	82,688

SOURCE: Bureau of the Census, *Statistical Abstract of the United States*, 1945 through 1975 (Washington, D.C.: annually), Table 415 (1975), and *1977 Census of Governments*, Preliminary Report No. 1, Governmental Units in 1977 and 1982 (Washington, D.C.), pp. 1, 6.

TABLE IX-2. NUMBER OF DEMOCRATIC AND REPUBLICAN VOTES FOR PRESIDENT AND UNITED STATES SENATOR, BY COUNTY: GENERAL ELECTION NOVEMBER 6, 1984

County	President & Vice President Mondale Ferraro (Dem)	 Reagan Bush (Rep)	Senator Carl Levin (Dem)	 Jack Lousma (Rep)
Alcona	1,616	3,223	2,232	2,358
Alger	2,018	2,175	2,471	1,514
Allegan	8,389	23,762	9,992	20,545
Alpena	5,136	8,212	6,890	5,729
Antrim	2,507	5,726	3,186	4,649
Arenac	2,436	3,483	3,091	2,488
Baraga	1,818	1,965	2,241	1,362
Barry	5,898	14,245	7,352	11,682
Bay	22,597	26,198	28,306	18,447
Benzie	1,866	3,590	2,116	3,069
Berrien	21,228	43,160	23,020	37,908
Branch	3,860	11,004	5,301	8,325
Calhoun	20,313	34,470	26,887	24,864
Cass	6,634	11,647	6,869	9,988
Charlevoix	3,175	6,355	4,107	5,311
Cheboygan	3,358	6,053	4,309	4,452
Chippewa	4,575	8,135	6,001	5,969
Clare	3,764	6,587	5,175	5,025
Clinton	6,226	17,387	9,003	13,670
Crawford	1,558	3,303	2,191	2,655
Delta	7,934	8,952	9,795	6,049
Dickinson	5,614	6,880	6,436	4,727
Eaton	10,290	27,720	14,541	21,432
Emmet	3,254	7,760	4,637	6,247
Genessee	89,491	92,943	109,160	70,438
Gladwin	3,368	5,401	4,522	4,033
Gogebic	5,554	4,006	5,933	2,662
Grand Traverse	7,271	18,036	9,592	14,646
Gratiot	4,000	10,456	5,633	8,146
Hillsdale	3,616	12,063	5,327	9,625
Houghton	6,434	8,652	8,063	6,208
Huron	3,966	11,073	5,406	8,321
Ingham	46,411	68,753	60,081	53,091
Ionia	5,735	14,162	7,449	11,156
Iosco	3,850	7,907	5,346	6,058
Iron	3,559	3,468	3,992	2,629
Isabella	6,435	12,215	8,820	9,361
Jackson	18,340	40,133	24,365	32,170
Kalamazoo	32,460	58,327	39,080	47,772
Kalkaska	1,595	3,623	2,065	2,882

TABLE IX-2. NUMBER OF DEMOCRATIC AND REPUBLICAN VOTES FOR PRESIDENT AND UNITED STATES SENATOR, BY COUNTY: GENERAL ELECTION NOVEMBER 6, 1984 (cont.)

County	President & Vice President Mondale Ferraro (Dem)	President & Vice President Reagan Bush (Rep)	Senator Carl Levin (Dem)	Senator Jack Lousma (Rep)
Kent	66,238	137,417	85,056	114,764
Keweenaw	628	599	753	418
Lake	1,845	2,125	2,209	1,711
Lapeer	7,800	19,222	11,331	15,388
Leelanau	2,498	5,356	3,058	4,465
Lenawee	11,012	22,409	13,705	17,575
Livingston	10,720	31,846	15,811	25,381
Luce	833	1,715	1,142	1,184
Mackinac	1,949	3,627	2,662	2,589
Macomb	97,816	194,300	138,400	143,099
Manistee	3,917	6,328	4,567	5,221
Marquette	14,074	14,196	17,198	9,989
Mason	3,803	8,202	5,039	6,675
Mecosta	4,048	9,023	5,268	7,339
Menominee	4,425	6,618	5,117	4,667
Midland	10,769	21,521	14,821	17,012
Missaukee	1,256	3,970	1,762	3,359
Monroe	19,617	29,419	24,241	21,656
Montcalm	5,491	13,109	6,769	10,696
Montmorency	1,387	2,913	1,851	2,158
Muskegon	25,247	39,355	32,402	30,106
Newaygo	4,496	10,636	5,586	8,778
Oakland	150,286	306,050	214,695	229,499
Oceana	2,865	6,405	3,687	5,067
Ogemaw	3,132	4,901	4,238	3,353
Ontonagon	2,350	2,464	2,766	1,745
Osceola	2,127	5,923	2,754	4,748
Oscoda	951	2,239	1,364	1,763
Otsego	2,117	4,639	2,785	3,638
Ottawa	15,000	60,142	19,466	52,899
Presque Isle	2,481	4,207	3,462	3,063
Roscommon	3,359	6,419	4,572	4,713
Saginaw	38,420	51,495	48,603	39,005
St. Clair	16,998	36,114	23,511	27,832
St. Joseph	5,795	15,405	6,920	12,524
Sanilac	4,126	12,627	5,439	10,284
Schoolcraft	1,920	2,139	2,386	1,387
Shiawassee	9,514	18,756	13,030	14,018
Tuscola	6,212	14,698	8,337	11,115
Van Buren	8,853	16,426	10,022	13,814
Washtenaw	55,084	58,736	64,338	47,238
Wayne	496,632	367,391	569,016	279,709
Wexford	3,398	7,279	4,709	5,495
TOTAL	1,529,638	2,251,571	1,915,831	1,745,302

SOURCE: Michigan Department of Management and Budget, special release.

TABLE IX-3. OFFICIAL CANVASS FOR REPRESENTATIVES IN CONGRESS: 6 NOVEMBER 1984

Congressional district	Candidates	Party	Vote
1	John Conyers, Jr.	Democratic	152,432
1	Ed Mack	Republican	17,393
1	Andrew Pulley	T.I.S.	685
2	Carl D. Pursell	Republican	140,688
2	Mike McCauley	Democratic	62,374
2	Greg Severance	T.I.S.	1,128
2	James Huddler	Libertarian	937
3	Howard Wolpe	Democratic	106,505
3	Jackie McGregor	Republican	94,714
4	Mark D. Siljander	Republican	127,907
4	Charles Radebaugh	Democratic	63,159
5	Paul Henry	Republican	140,131
5	Gary McInerney	Democratic	85,232
5	Richard Whitelock	Libertarian	1,312
6	Bob Carr	Democratic	106,705
6	Tom Ritter	Republican	95,113
6	Russell Severance	T.I.S.	936
6	James Hurrel	Libertarian	773
7	Dale E. Kildee	Democratic	145,070
7	Samuel Johnson	Independent	10,063
8	Bob Traxler	Democratic	126,161
8	John Heussner	Republican	69,683
9	Guy Vander Jagt	Republican	150,885
9	John Senger	Democratic	61,233
9	Nicholas Hamilton	Libertarian	680
10	Bill Schuette	Republican	104,950
10	Don Albosta	Democratic	103,636
10	George Leef	Libertarian	1,054
11	Bob Davis	Republican	126,992
11	Tom Stewart	Democratic	89,640
12	David E. Bonior	Democratic	113,772
12	Eugene Tyza	Republican	79,824
12	Keith P. Edwards	Libertarian	1,388

TABLE IX-3. OFFICIAL CANVASS FOR REPRESENTATIVES IN CONGRESS: 6 NOVEMBER 1984 (cont.)

Congressional district	Candidates	Party	Vote
13	George W. Crockett, Jr.	Democratic	132,222
13	Robert Murphy	Republican	20,416
14	Dennis M. Hertel	Democratic	113,610
14	John Lauve	Republican	77,427
14	Virginia Cropsey	Libertarian	1,105
15	William D. Ford	Democratic	98,973
15	Gerald Carlson	Republican	66,172
16	John D. Dingell	Democratic	121,463
16	Frank Grzywacki	Republican	68,116
16	Donald Kostyu	Libertarian	1,042
17	Sander Levin	Democratic	113,064
18	William S. Broomfield	Republican	186,505
18	Vivian Broomfield	Democratic	46,191
18	Timothy O'Brien	Libertarian	2,188

SOURCE: Michigan Secretary of State, a special release.

TABLE IX-4. DEMOCRATIC AND REPUBLICAN VOTES FOR GOVERNOR AND SECRETARY OF STATE, BY COUNTY: 2 NOVEMBER 1982

	Governor			Secretary of State		
County	James J. Blanchard (Dem.)	Richard H. Headlee (Rep.)	Total votes	Richard H. Austin (Dem.)	Elizabeth A. Andrus (Rep.)	Total votes
Alcona	1,852	2,153	4,113	2,384	1,449	3,874
Alger	1,993	1,372	3,439	2,440	841	3,310
Allegan	8,849	15,927	25,627	12,254	12,041	24,572
Alpena	5,744	5,516	11,502	7,655	3,220	11,014
Antrim	2,799	3,669	6,708	3,706	2,609	6,404
Arenac	2,502	2,237	4,989	3,138	1,515	4,702
Baraga	1,697	1,367	3,026	2,038	868	2,936
Barry	6,670	9,313	16,567	9,003	6,847	16,045
Bay	23,028	16,086	42,287	28,595	10,076	39,239
Benzie	1,980	2,345	4,506	2,517	1,780	4,360
Berrien	18,753	25,453	45,574	22,003	22,428	44,997
Branch	4,474	6,910	11,857	6,440	4,859	11,416
Calhoun	22,564	25,646	49,763	31,238	16,453	48,166
Cass	6,273	6,552	13,254	7,249	5,571	12,950
Charlevoix	3,600	4,062	7,898	5,018	2,729	7,877
Cheboygan	3,946	3,809	7,947	4,753	2,815	7,640
Chippewa	5,332	4,990	10,546	6,773	3,176	10,055
Clare	4,113	3,865	8,300	5,510	2,576	8,245
Clinton	7,569	11,267	19,932	10,597	8,076	18,888
Crawford	1,770	1,948	3,852	2,510	1,228	3,810
Delta	7,953	5,283	13,457	9,155	3,521	12,784
Dickinson	4,766	4,672	9,621	6,158	2,740	8,985
Eaton	12,767	17,330	31,418	17,373	12,580	30,329
Emmet	3,617	4,929	8,741	5,321	3,315	8,744
Genesee	81,331	50,268	140,922	103,337	32,106	138,402
Gladwin	3,546	2,982	6,821	4,742	1,870	6,758
Gogebic	4,730	2,323	7,134	5,106	1,667	6,819
Grand Traverse	7,081	12,188	19,861	10,531	8,351	19,124
Gratiot	4,963	6,186	11,637	6,566	4,527	11,232
Hillsdale	3,915	7,696	12,197	6,047	5,320	11,496
Houghton	6,598	5,582	12,420	8,020	3,582	11,754
Huron	4,589	7,309	12,245	5,759	5,285	11,163
Ingham	50,120	44,205	98,051	64,987	30,347	97,349
Ionia	6,789	8,794	16,317	8,890	6,348	15,521
Iosco	4,488	4,346	9,126	5,469	3,046	8,585
Iron	3,672	2,516	6,295	4,215	1,580	5,871
Isabella	6,318	7,350	14,206	8,917	4,551	13,776
Jackson	20,608	28,507	50,929	29,583	18,785	48,946
Kalamazoo	33,566	36,050	71,382	42,395	25,756	68,980
Kalkaska	1,725	2,073	3,965	2,344	1,398	3,823

TABLE IX-4. DEMOCRATIC AND REPUBLICAN VOTES FOR GOVERNOR AND SECRETARY OF STATE, BY COUNTY: 2 NOVEMBER 1982 (cont.)

County	Governor James J. Blanchard (Dem.)	Richard H. Headlee (Rep.)	Total votes	Secretary of State Richard H. Austin (Dem.)	Elizabeth A. Andrus (Rep.)	Total votes
Kent	69,327	88,760	162,511	94,183	62,302	158,505
Keweenaw	619	461	1,088	688	344	1,034
Lake	1,786	1,246	3,178	2,112	972	3,137
Lapeer	9,299	11,359	22,211	14,088	7,046	21,786
Leelanau	2,229	3,891	6,308	3,321	2,611	6,025
Lenawee	11,567	13,641	26,600	15,443	9,766	25,453
Livingston	11,888	20,326	33,750	18,479	13,125	32,069
Luce	1,165	1,024	2,231	1,297	815	2,129
Mackinac	2,261	2,190	4,545	2,728	1,598	4,360
Macomb	117,540	105,341	232,047	153,247	60,937	217,719
Manistee	4,312	4,052	8,627	5,299	2,903	8,287
Marquette	12,862	8,308	1,392	14,800	5,241	20,275
Mason	4,214	4,963	9,648	5,676	3,742	9,604
Mecosta	4,135	5,634	10,087	5,563	3,928	9,598
Menominee	4,164	3,367	7,893	4,999	2,529	7,599
Midland	12,326	14,297	27,605	16,772	9,955	27,344
Missaukee	1,515	2,624	4,292	2,498	1,622	4,209
Monroe	17,785	16,011	35,581	23,910	9,852	34,099
Montcalm	6,356	7,739	14,692	7,933	5,726	13,840
Montmorency	1,545	1,822	3,472	2,041	1,218	3,290
Muskegon	25,851	25,261	52,606	34,719	16,179	51,496
Newaygo	4,817	6,689	11,873	6,186	5,065	11,352
Oakland	167,687	184,123	366,305	226,499	119,667	351,351
Oceana	3,161	4,044	7,525	4,278	2,885	7,238
Ogemaw	3,558	2,722	6,575	4,396	1,769	6,227
Ontonagon	2,360	1,730	4,170	2,744	1,157	3,935
Osceola	2,561	3,923	6,782	3,614	2,719	6,412
Oscoda	1,278	1,372	2,768	1,844	821	2,726
Otsego	2,412	2,936	5,503	3,437	1,809	5,336
Ottawa	16,441	40,399	58,361	24,502	31,278	56,221
Presque Isle	2,761	2,747	5,605	3,945	1,581	5,607
Roscommon	4,046	3,729	8,092	5,175	2,452	7,706
Saginaw	41,003	32,380	75,961	53,687	20,206	75,127
St. Clair	20,724	22,213	44,843	28,840	13,559	43,225
St. Joseph	6,306	8,983	15,649	7,532	7,165	14,851
Sanilac	5,070	8,357	13,956	6,822	6,286	13,260
Schoolcraft	1,964	1,400	3,425	2,228	1,052	3,306
Shiawassee	11,099	10,857	24,654	16,001	7,302	23,643
Tuscola	7,638	8,539	16,926	9,861	5,931	15,997
Van Buren	8,847	10,611	20,018	10,601	8,473	19,287
Washtenaw	46,319	34,005	82,937	56,738	22,137	80,096
Wayne	466,088	215,986	700,290	551,367	124,347	685,952
Wexford	3,935	4,494	8,754	5,392	2,938	8,422
TOTAL	1,561,291	1,369,582	3,040,008	1,996,221	900,842	2,940,030

SOURCE: Michigan Department of Management and Budget, Michigan Manual (Lansing: 1983), pp. 451-453.

TABLE IX-5. ELECTION OF JUSTICES OF THE MICHIGAN SUPREME COURT, GENERAL ELECTION, NOVEMBER 6, 1984

Candidate	Number of votes
	(Term ending 1-1-93, 1 position)
Dorothy Comstock Riley	1,594,416
Thomas Giles Kavanagh	1,089,425
Robert W. Roddis	144,671
	(Term ending 1-1-91, 1 position)
Patricia J. Boyle	1,467,909
Robert P. Griffin	1,249,183
David H. Raaflaub	103,859
	(Term ending 1-1-89, 1 position)
James H. Brickley	1,761,835
James A. Hathaway	835,708

SOURCE: Michigan Department of Management and Budget, special release.

TABLE IX-6. MICHIGAN REPRESENTATION IN THE STATE HOUSE OF REPRESENTATIVES, BY DISTRICT: 1984-1985

District	Representative	Party	District	Representative	Party
1	Michael J. Bennane	(D)	25	Dennis M. Dutko	(D)
2	Burton Leland	(D)	26	Doug Carl	(R)
3	Matthew McNeely	(D)	27	Vincent "Joe" Porreca	(D)
4	Alma G. Stallworth	(D)	28	Robert A. DeMars	(D)
5	Teola P. Hunter	(D)	29	Rick Sitz	(D)
6	Morris Hood, Jr.	(D)	30	Joseph Palamera	(D)
7	Nelson W. Saunders	(D)	31	William Runco	(R)
8	Carolyn Cheeks Kilpatrick	(D)	32	Richard A. Young	(D)
9	Ethel Terrell	(D)	33	William R. Keith	(D)
10	Virgil C. Smith, Jr.	(D)	34	John Bennett	(D)
11	Stanley Stopczynski	(D)	35	Lyn Bankes	(R)
12	Curtis Hertel	(D)	36	Gerald H. Law	(R)
13	William R. Bryant, Jr.	(R)	37	Jim Kosteva	(D)
14	Joseph Young, Sr.	(D)	38	Justine Barns	(D)
15	Joseph Young, Jr.	(D)	39	Jerry C. Bartnik	(D)
16	Juanita Watkins	(D)	40	Timothy L. Walberg	(R)
17	Raymond M. Murphy	(D)	41	Michael E. Nye	(R)
18	Sidney Ouwinga	(R)	42	Glenn Oxender	(R)
19	Donald Van Singel	(R)	43	Carl F. Gnodtke	(R)
20	Claude Trim	(R)	44	Lad S. Stacey	(R)
21	Lynn Owen	(D)	45	James "Mick" Middaugh	(R)
22	Gary M. Owen	(D)	46	Mary C. Brown	(D)
23	Philip E. Hoffman	(R)	47	Paul Wartner	(R)
24	David Honigman	(R)	48	Donald H. Gilmer	(R)

TABLE IX-6. MICHIGAN REPRESENTATION IN THE STATE HOUSE OF REPRESENTATIVES, BY DISTRICT: 1984-1985 (cont.)

District	Representative	Party	District	Representative	Party
49	Richard Fitzpatrick	(D)	73	Nick Ciaramitaro	(D)
50	Michael J. Griffin	(D)	74	John M. Maynard	(D)
51	Frederick Dillingham	(R)	75	George Furton	(R)
52	Margaret O'Connor	(R)	76	Terry London	(R)
53	Perry Bullard	(D)	77	Dick Allen	(R)
54	Paul Hillegonds	(R)	78	Keith Muxlow	(R)
55	William Van Regenmorter	(R)	79	John D. Cherry, Jr.	(D)
56	Ernest Nash	(R)	80	Floyd Clack	(D)
57	David C. Hollister	(D)	81	Robert Emerson	(D)
58	Debbie Stabenow	(D)	82	Thomas E. Scott	(D)
59	H. Lynn Jondahl	(D)	83	Charles L. Mueller	(R)
60	Willis Bullard, Jr.	(R)	84	John G. Strand	(R)
61	Mat J. Dunaskiss	(R)	85	James E. O'Neill, Jr.	(D)
62	Charlie J. Harrison, Jr.	(D)	86	Lewis N. Dodak	(D)
63	Gordon R. Sparks	(R)	87	Francis R. Spaniola	(D)
64	Maxine Berman	(D)	88	Robert Bender	(R)
65	Judith Miller	(R)	89	Gary L. Randall	(R)
66	Gregory Gruse	(R)	90	Victor C. Krause	(R)
67	David Gubow	(D)	91	Walter J. DeLange	(R)
68	Shirley Johnson	(R)	92	Thomas C. Mathieu	(D)
69	Wilbur V. Brotherton	(R)	93	Vernon J. Ehlers	(R)
70	Lloyd R. Weeks	(D)	94	Jelt Sietsema	(D)
71	Sal Rocca	(R)	95	Alvin Hoekman	(R)
72	Bob Perakis	(R)	96	Mickey Knight	(R)

TABLE IX-7. ELECTION RESULTS OF STATE UNIVERSITY RULING BOARDS, GENERAL ELECTION, NOVEMBER 6, 1984

Candidates	Political party	Number of votes[a]
Wayne State University Board of Governors:		
George Bashara	Republican	1,625,814
Gary Artinian	Republican	1,590,171
Denise Lewis	Democratic	1,460,089
Winifred Fraser	Democratic	1,431,918
Willian Hollander	Libertarian	49,868
Harold Lichtenberg	Libertarian	36,395
University of Michigan Regents:		
Neal Nielsen	Republican	1,630,761
Veronica Latta Smith	Republican	1,605,974
Robert Nederlander	Democratic	1,514,933
Marjorie Lansing	Democratic	1,457,433
Bette Erwin	Libertarian	53,048
William Krebaum	Libertarian	35,429
Michigan State University Trustees:		
Kathy Wilbur	Republican	1,672,597
Dean Pridgeon	Republican	1,623,102
Charles Vicent	Democratic	1,450,710
June Kretzchmer	Democratic	1,409,971
Charles Severance	T.I.S.	46,956
Thomas Jones	Libertarian	37,294
Kurt Weber	Libertarian	36,797

SOURCE: Michigan Department of Management and Budget, special release.

a. The two leading vote receivers were elected.

X. GOVERNMENTAL FINANCE AND EMPLOYMENT

Data on the federal tax burden are rough estimates prepared by the Tax Foundation, Inc., a nonprofit research foundation. In developing figures for each state, the Tax Foundation allocates individual income tax liabilities on the basis of data reported by the Internal Revenue Service in its Statistics of Income series, the same documents from which Tables X-3 and X-4 were developed. In the distribution of personal and property income, the assumption is that one-half of the levy is passed on to customers through prices, and the other half is shifted backward to property owners in general. Property income is a component of personal income, accounting for roughly one-seventh of the aggregate. Estate and gift taxes are assumed to be distributed according to the previous six years' total of estate and gift taxes reported in the Annual Report of the Commissioner of Internal Revenue. Excise taxes on alcoholic beverages are assumed to follow the geographic pattern of consumption of distilled spirits, malt beverages, and wines. The state-by-state distribution of tobacco taxes is patterned after population. Similar procedures are used to estimate other federal revenues, in each case employing the most appropriate allocator.

State and local revenue data are collected by the Bureau of the Census in its quinquennial Census of Governments, the latest of which covers 1977. For interim years, the Bureau of the Census develops statistics based on a sample of local governments in each state, along with reports from the District of Columbia and each of the fifty states. No agency, public or private, assesses the geographic burden of state and local revenues in a manner parallel to the Tax Foundation's assessment of the federal tax burden. This means that the Michigan Single Business Tax, for example, is assumed to be borne entirely by residents of this state (Table X-2 and so forth), although it is certainly exported, to some extent, with every car and truck that rolls from an assembly line destined for another state or country. Similarly, part of the well head taxes levied in Texas, Louisiana, Oklahoma, and Wyoming are paid, in the final analysis, by Michiganians and other Americans.

For a number of reasons, the data published by the Bureau of the Census vary from those published in the Michigan State Tax Commission's State of Michigan Financial Reports, and by other in-state sources. The major reason for frequent disagreement is the inclusion of publicly owned community colleges, colleges, and universities in the Bureau of the Census definition of government. In Tables X-7 and X-8, current charges for education include student tuition and fees paid to the state and locally operated colleges and universities; Tables X-14 and X-15 include expenditures of these institutions (pay to faculty, and so forth). In Table X-9, student fees, tuition, and other revenues derived independently by higher education are not included as part of state revenues; Table X-16 reports only expenditures for higher education that the state spends, not the total amount expended by the institutions themselves. Interested readers are encouraged to consult the chapter on education.

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TABLE X-1. AVERAGE EMPLOYMENT IN GOVERNMENT IN MICHIGAN AND THE UNITED STATES: 1956-1984.

(In thousands)

	Michigan			United States		
Year	Federal	State	Local	Federal	State	Local
1956	42.8	64.4	206.2	2,209	1,250	3,819
1957	43.4	65.4	207.1	2,217	1,328	4,071
1958	44.0	66.5	209.0	2,191	1,415	4,232
1959	44.5	69.8	210.9	2,233	1,484	4,366
1960	46.8	72.6	213.9	2,270	1,536	4,547
1961	47.9	73.8	215.7	2,279	1,607	4,708
1962	47.5	73.9	221.8	2,340	1,668	4,881
1963	49.7	75.2	234.9	2,358	1,747	5,121
1964	49.0	78.4	245.9	2,348	1,856	5,392
1965	51.1	85.0	259.4	2,378	1,996	5,700
1966	54.3	95.9	282.8	2,564	2,141	6,080
1967	57.1	99.8	298.2	2,719	2,302	6,371
1968	58.5	104.4	308.4	2,737	2,442	6,660
1969	56.8	111.9	325.8	2,758	2,533	6,904
1970	57.7	115.9	333.0	2,731	2,664	7,158
1971	54.8	117.8	336.8	2,696	2,747	7,437
1972	55.2	122.4	349.0	2,684	2,859	7,790
1973	55.0	123.9	355.4	2,663	2,923	8,146
1974	56.2	127.5	378.8	2,724	3,039	8,407
1975	56.1	132.6	394.4	2,748	3,179	8,758
1976	55.5	135.1	403.9	2,733	3,273	8,865
1977	54.7	136.8	405.2	2,727	3,377	9,023
1978	54.6	143.6	413.2	2,753	3,474	9,446
1979	56.7	147.7	416.6	2,773	3,541	9,633
1980	58.2	152.3	417.3	2,866	3,610	9,765
1981	55.9	147.8	394.7	2,772	3,640	9,619
1982	55.9	142.2	379.7	2,739	3,640	9,458
1983	55.9	140.5	373.4	2,774	3,662	9,434
1984	56.2	138.2	372.1	2,807	3,712	9,465

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, Employment and Earnings, (Washington, D.C.: monthly), March, 1985, Tables B-1; and Supplement to Employment and Earnings (Washington, D.C.: June, 1985).

TABLE IX-6. MICHIGAN REPRESENTATION IN THE STATE HOUSE OF REPRESENTATIVES, BY DISTRICT: 1984-1985 (cont.)

District	Representative	Party	District	Representative	Party
97	Edgar A. Geerlings	(R)	104	Thomas G. Power	(R)
98	Ed Giese	(R)	105	Thomas Alley	(D)
99	Colleen House Engler	(R)	106	John D. Pridnia	(R)
100	J. Michael Busch	(R)	107	Pat Gagliardi	(D)
101	Thomas L. Hickner	(D)	108	Dominic J. Jacobetti	(D)
102	Michael D. Hayes	(R)	109	Jim Connors	(R)
103	Ralph Ostling	(R)	110	Donald W. Koivisto	(D)

SOURCE: Michigan Department of Management and Budget, special release.

(R): Republican

(D): Democrat

TABLE IX-8. LEGISLATIVE AND EXECUTIVE ACTION ON BILLS: 1964-1984

	House activity			Senate activity			Gubernatorial action	
Year	House bills introduced	House bills passed House	Senate bills passed House	Senate bills introducted	Senate bills passed Senate	House bills passed Senate	Bills presented to the Governor	Bills vetoed[a]
1964	958	250	112	529	215	193	305	8
1965	1,031	377	178	699	287	264	442	26
1966	1,021	394	106	539	184	260	366	15
1967[b]	1,300	267	152	823	239	168	320	0
1968	971	276	147	585	241	225	372	12
1969	1,924	310	159	1,114	321	198	357	11
1970	974	336	112	669	197	151	264[c]	10
1971	1,840	376	99	1,111	204	136	235	2
1972	578	218[d]	131	383	140	257[d]	388[c]	3
1973	1,528	275	105	1,075	178	123	215	5
1974	792	264	141	4,435	163	251	390	4
1975	1,877	420	114	1,247	208	246	344	8
1976	782	278	176	497	199	294	468	14
1977	1,835	396	105	1,285	200	225	322	3
1978	914	430	219	460	284	433	657	15
1979	1,369	283	85	903	176	146	225	5
1980	790	354	202	430	208	354	546	22
1981	1,370	373	76	610	147	167	234	2
1982	814	357	183	400	180	373	549	8
1983	1,215	322	105	605	165	158	261	2
1984	634	281	137	309	210	308	436	4

SOURCE: State of Michigan, Journal of the Senate (Lansing: annually).

a. One veto was overriden during 1977.

b. Including extra session.

c. In 1970 the legislature recalled one bill; in 1972, two.

d. Bills introduced it the first year of a new legislature carry over into the second year; since 1972 was the second year of the 76th legislature, the excess of House bills passing the Senate over those passing the House is explained.

TABLE X-2. STATE AND LOCAL TAX COLLECTIONS AND FEDERAL TAX BURDEN IN MICHIGAN AND THE UNITED STATES, FISCAL YEARS: 1966-1983

(Millions of dollars)

	Federal		States		Local		Total	
Fiscal year	Michigan	United States	Michigan	United States	Michigan	United States	Michigan	United States
1966	5,590	123,402	1,467.7	29,379.8	1,127.6	27,360.8	8,185.3	180,142.6
1967	n.a.	n.a.	1,530.8	31,926.0	1,184.4	29,074.0	n.a.	n.a.
1968	6,982	143,950	1,885.6	36,400.2	1,319.3	31,171.4	10,186.9	211,521.6
1969	n.a.	n.a.	2,248.8	41,930.7	1,505.4	34,781.2	n.a.	n.a.
1970	8,936	186,947	2,345.1	47,962.0	1,697.9	38,833.3	12,979.0	273,742.3
1971	n.a.	n.a.	2,543.9	51,541.2	1,876.7	43,434.0	n.a.	n.a.
1972	8,949	193,697	3,062.4	59,870.0	2,184.7	49,739.0	14,196.1	303,306.0
1973	n.a.	n.a.	3,527.6	68,069.3	2,216.9	53,032.4	n.a.	n.a.
1974	11,492	243,467	3,681.2	74,207.0	2,497.8	56,515.0	17,671.0	374,189.0
1975	n.a.	n.a.	3,486.0	80,154.9	2,757.0	61,310.1	n.a.	n.a.
1976	12,919	278,420	3,769.5[a]	89,255.5	3,049.8	67,557.4	19,738.3	435,232.9
1977	n.a.	n.a.	4,843.7	101,084.0	3,137.9	84,851.6	n.a.	n.a.
1978	17,357	389,164	5,444.9	113,260.9	3,365.9	80,380.8	26,167.8	582,805.7
1979	20,737	450,816	6,017.7	124,962.9	3,645.8	80,606.1	30,400.5	656,385.0
1980	23,394	500,950	5,947.6	137,075.2	4,008.8	86,387.5	33,350.4	724,412.7
1981	n.a.	n.a.	6,177.0	149,737.9	4,505.1	94,776.2	n.a.	n.a.
1982	n.a.	n.a.	6,307.2	162,657.8	5,089.6	103,641.2	n.a.	n.a.
1983	n.a.	n.a.	7,022.7	171,440.0	5,405.0	113,145.1	n.a.	n.a.

SOURCE: Bureau of the Census, 1977 Census of Governments, Compendium of Government Finances (Washington, D.C.: 1979), vol. 4, no. 5, Tables 3 and 47, and similar documents for 1967 (Table 23), and 1972 (Table 23); Bureau of the Census, Governmental Finances, 1981-82 (Washington, D.C.: 1982), Table 6, and similar documents for other years between quinquennial Censuses of Governments; Tax Foundation, Inc., Facts and Figures on Government Finance, 1958-59 through 1981 (New York: biennially), Table 101 (1980), and special release (1979 data); and Bureau of the Census, State Government Finances in 1983, (Washington, D.C.: 1984), Table 7.

a. Pertains to the fiscal year ended 30 June 1976. The 1977 fiscal year ended 30 September 1977. During the fiscal year ended 30 June 1976, state tax collections totaled $3,769,500,000. If the fiscal year had ended 30 September 1976, they would have totaled around $4,200,000,000.
n.a.: not available.

TABLE X-4. DETAIL OF PERSONAL TAX AND NONTAX PAYMENTS FROM MICHIGAN AND UNITED STATES RESIDENTS: 1978 AND 1983

	1978		1983		Percentage change	
	Michigan	United States	Michigan	United States	Michigan	United States
	(In millions of dollars)					
Personal tax and nontax payments to ffederal government (net of refunds)	9,430	194,413	9,981	294,162	5.8	51.3
Individual income taxes (net of refunds)	9,248	187,861	9,783	286,084	5.8	52.3
Individual income taxes (gross)	10,807	220,542	12,386	347,686	14.6	57.7
Less: refunds	1,559	32,681	2,603	61,602	70.0	88.5
Fiduciary income tax	23	1,104	35	1,684	52.2	52.5
Estate and gift tax	152	5,265	143	5,889	-5.9	11.9
Nontax payments	8	183	20	505	1.5	176.0
Personal tax and nontax payments to state governments	2,581	45,905	4,079	77,069	58.0	67.9
Individual income taxes	1,844	31,584	2,809	53,167	52.3	68.3
Death and gift taxes	40	1,883	56	2,447	40.0	30.3
Motor vehicle taxes	110	2,933	138	3,853	25.5	31.4
Other taxes[a]	22	347	23	590	4.5	70.0
Nontax payments	565	9,158	1,053	17,012	86.4	85.8
Personal tax and nontax payments to local governments	850	16,446	1,666	30,381	96.0	84.7
Individual income taxes	204	3,397	366	5,489	79.4	61.6
Death and gift taxes	0	94	0	122	0.0	29.8
Other taxes[b]	12	711	15	972	25.0	36.7
Nontax payments	634	12,244	1,285	23,798	102.7	94.4
State and local personal property taxes	18	1,046	56	1,517	211.1	45.0

SOURCE: Bureau of Economic Analysis, Regional Economic Information System, special release.

a. Includes hunting and fishing taxes and other license taxes.

b. Includes local motor vehicle license taxes and other local license taxes.

TABLE X-5. ORIGIN AND ALLOCATION, BY LEVEL OF GOVERNMENT, OF GENERAL REVENUE OF MICHIGAN STATE AND LOCAL GOVERNMENTS: FISCAL YEARS 1963-1983

(In millions of dollars)

Year	Originating level of government			Final recipient level of government		Total general revenue
	Federal	State	Local	State	Local	
1962-63	338.9	1,311.5	1,249.6	990.7	1,909.2	2,899.9
1963-64	404.3	1,408.6	1,312.3	1,144.0	1,981.2	3,125.2
1964-65	426.2	1,545.5	1,398.6	1,255.2	2,115.1	3,370.3
1965-66	471.9	1,724.0	1,528.6	1,347.0	2,377.6	3,724.6
1966-67	593.6	1,835.4	1,623.5	1,435.5	2,617.0	4,052.5
1967-68	637.6	2,226.6	1,800.3	1,868.2	2,796.2	4,664.5
1968-69	711.0	2,640.1	2,053.9	2,160.3	3,244.7	5,405.0
1969-70	818.2	2,769.7	2,330.6	2,264.5	3,654.0	5,918.5
1970-71	1,019.1	3,019.3	2,574.3	2,490.9	4,121.9	6,612.7
1971-72	1,306.9	3,572.1	3,038.9	3,121.8	4,796.2	7,918.0
1972-73	1,769.7	4,121.3	3,109.1	3,822.7	5,177.5	9,000.2
1973-74	1,845.2	4,417.1	3,538.4	3,889.5	5,911.3	9,800.8
1974-75	2,124.4	4,267.9	3,947.0	3,846.9	6,492.4	10,339.3
1975-76	2,667.3	4,607.0[a]	4,319.8	4,327.0	7,267.0	11,594.1
1976-77	2,841.1	5,763.5	4,580.3	5,192.1	7,992.8	13,184.9
1977-78	3,131.3	6,556.6	4,793.9	5,901.9	8,579.9	14,481.8
1978-79	3,399.8	7,302.0	5,408.3	6,612.8	9,497.2	16,110.0
1979-80	3,897.3	7,460.4	6,125.9	6,977.9	10,505.7	17,483.6
1980-81	4,093.8	7,908.2	6,857.1	7,934.9	10,924.2	18,859.1
1981-82	3,962.4	8,213.1	8,074.9	8,371.6	11,878.9	20,250.4
1982-83	4,069.2	9,029.7	8,249.8	9,483.6	11,865.1	21,348.7

SOURCE: Bureau of the Census, *U.S. Census of Governments, 1972*, vol. 4, *Government Finances*, no. 5, *Compendium of Government Finances* (Washington, D.C.: 1974), Table 23, and similar census documents for 1962 (Table 25), and 1967 (Table 23); Bureau of the Census, *Governmental Finances, 1980-81* (Washington, D.C.: 1983), Series GF-82, no. 5, Table 8; and *Governmental Finances, 1982-83*, (Washington, D.C.: 1984), Table 8.

NOTE: Includes revenues of public institutions of higher education, exclusive of their state or local support.

a. Pertains to the fiscal year ended 30 June 1976. The 1977 fiscal year ended 30 September 1977. During the fiscal year ended 30 June 1976, state tax collections totaled $3,769,500,000. If the fiscal year had ended 30 September 1976, they would have totaled around $4,200,000,000.

TABLE X-7. REVENUE OF LOCAL GOVERNMENTS IN MICHIGAN AS DEFINED BY THE BUREAU OF THE CENSUS, FISCAL YEARS: 1972, 1977, 1981, 1982, AND 1983

(In millions of dollars)

Item	1972	1977	1981	1982	1983
General revenue[c]	4,853.8	7,886.6	11,157.5	12,195.7	12,222.7
Federal government	248.7	799.3	1,165.9	1,051.3	977.7
State government	1,566.2	2,655.9	3,134.5	3,069.4	2,995.3
Own sources	3,395.9	4,431.4	6,857.1	8,074.9	8,249.8
Taxes	2,184.7	3,137.9	4,505.1	5,089.6	5,405.0
Property	2,005.4	2,874.8	4,200.2	4,687.9	5,009.3
Individual income	135.1	187.6	201.5[b]	295.1[b]	281.6
Other	44.1	75.3	103.1	106.1	113.7
Charges & miscellaneous	854.2	1,293.5	2,352.0	2,985.3	2,844.7
Current charges	586.8	950.8	1,582.2	1,804.6	1,879.8
Education	135.1	203.5	282.1	292.6	337.4
School lunch[a]	63.4	70.7	n.a.	n.a.	n.a.
Other	71.7	132.9	748.6	841.5	800.9
Hospitals	207.0	347.4	551.4	670.6	741.5
Sewerage	85.3	151.4	n.a.	n.a.	n.a.
Airports	17.6	39.5	n.a.	n.a.	n.a.
Other current charges	141.8	209.0	n.a.	n.a.	n.a.
Miscellaneous revenue	n.a.	n.a.	n.a.	n.a.	964.9
Interest earnings	102.8	143.1	462.3	509.9	495.1
Other	90.3	155.4	307.5	670.9	469.8
Utility revenue	251.7	411.4	590.0	586.4	764.3
Water supply	152.8	239.0	n.a.	n.a.	n.a.
Electric power	59.6	137.2	n.a.	n.a.	n.a.
Transit	39.3	35.1	n.a.	n.a.	n.a.
Insurance trust revenue, Total	n.a.	n.a.	n.a.	n.a.	426.5
Employee retirement	105.2	163.0	315.9	378.2	426.5
TOTAL[c]	5,210.8	8,461.0	12,063.4	13,160.3	13,413.5

SOURCE: Bureau of the Census, U.S. Census of Governments, 1977, vol. 4, Government Finances, no. 5, Compendium of Government Finances (Washington, D.C.: 1979), Table 47, and similar census documents for 1972 (Table 46); and Bureau of the Census, Governmental Finances, 1981-82 (Washington, D.C.: 1983), Series GF-82, No. 5, Table 5, and Governmental Finances, 1982-83 (Washington, D.C.: 1984), Table 5.

a. Gross sales.
b. Individual & Corporate Income.
c. Duplicative transactions between levels of government are excluded.
n.a.: not available.

TABLE X-8. REVENUE OF THE STATE OF MICHIGAN AS DEFINED BY THE BUREAU OF THE CENSUS, FISCAL YEARS: 1972, 1977, 1981, 1982, AND 1983

(In millions of dollars)

Item	1972	1977	1981	1982	1983
General Revenue	4,688.0	7,891.6	11,069.4	11,441.0	12,478.9
Federal government[a]	1,058.2	2,042.2	2,927.9	2,911.1	3,091.5
Local government	57.6	85.8	233.4	316.8	357.7
Own sources	3,572.1	5,763.5	7,908.2	8,183.1	9,029.7
Taxes	3,062.4	4,843.7	6,177.0	6,307.2	7,022.7
Property	93.3	117.7	142.8	155.2	166.3
General sales and use	987.7	1,407.0	1,792.7	1,843.7	1,969.4
Selective sales	582.0	757.9	808.4	773.2	803.8
Motor fuel	300.8	430.4	438.0	421.9	456.5
Alcoholic beverages	72.0	80.0	92.8	96.3	96.8
Tobacco products	128.7	140.3	140.6	135.3	126.9
Motor vehicle licenses	160.6	180.3	224.6	232.3	258.8
Individual income	0	728.9	2,028.4	2,126.6	2,567.0
Charges & miscellaneous	509.8	919.8	1,731.2	1,905.9	2,007.1
Current charges[b]	399.7	592.8	973.6	1,075.2	1,138.0
Education	296.6	422.3	638.4	722.8	751.2
Hospitals	64.8	109.6	242.9	262.1	290.7
Sale of property	2.3	1.2	1.2	1.2	1.3
Interest earnings	50.1	95.5	278.3	287.7	306.1
Liquor Store Revenue	306.5	338.3	417.6	422.9	406.8
Insurance Trust Revenue	477.4	1,459.4	3,547.7	2,723.1	3,211.4
Unemployment compensation[c]	247.8	967.1	2,711.1	1,540.5	1,698.4
Employee retirement	213.2	439.1	783.3	994.3	1,361.3
TOTAL	5,471.9	9,689.2	15,034.8	14,587.0	16,097.1

SOURCE: Bureau of the Census, *U.S. Census of Governments, 1977*, vol. 4, *Government Finances*, no. 5, *Compendium of Government Finances* (Washington, D.C.: 1972), Table 46; and Bureau of the Census, *State Government Finances, 1982* (Washington, D.C.: 1983), Series GF-82, no. 3, Table 7; and *State Governmental Finances, 1983*, Table 7.

a. Includes federal payments to state institutions of higher education.
b. Revenues of state institutions of higher education, exclusive of payments from state and federal government.
c. Excludes revenue contributed by the Federal Government for extended and special compensation programs.

TABLE X-9. REVENUE OF STATE OF MICHIGAN, AS DEFINED BY THE STATE OF MICHIGAN (EXCLUSIVE OF REVENUES OF STATE INSTITUTIONS OF HIGHER EDUCATION), FISCAL YEARS: 1983 AND 1984

(In thousands of dollars)

Source	1983	1984
Taxes		
Sales tax	1,698,983	1,924,966
Personal income tax	2,766,377	3,255,595
Corporation income tax	5,353	12,256
Single business tax	1,041,745	1,280,547
Use tax	279,516	317,332
Cigarette tax	242,068	240,957
Beer and wine tax	51,462	51,652
Liquor excise tax	38,444	39,271
Horse race wagering tax	21,118	21,480
Intangibles tax	52,768	53,902
Inheritance tax	64,169	62,393
Telephone and telegraph company tax	107,984	113,073
Insurance company premium tax	101,573	103,401
Motor vehicle weight tax	237,724	255,862
Gasoline Tax	434,575	528,924
Aviation fuel tax	2,983	3,277
Diesel fuel tax	28,834	40,430
Gas and oil severance tax	78,679	78,029
Industrial facilities tax	32,185	38,578
Watercraft registration tax	2,081	5,358
Penalties and interest-sales, income, use, and single business tax	39,064	38,724
Other taxes	5,739	5,238
TOTAL	7,333,434	8,471,626
From federal agencies:		
Dept. of Health and Human Services	1,863,240	2,080,454
Department of Education	218,573	220,306
Department of Agriculture	157,923	197,757
Department of Labor	185,765	238,453
Dept. of Housing & Urban Development	42,311	42,690
Environmental Protection Agency	12,318	11,293
Department of Transportation	220,196	287,356
Department of Energy	20,625	23,328
Department of Interior	9,560	8,808
Department of Defense	10,840	9,534
Department of Justice	4,583	3,067
Other federal agencies	22,832	38,817
TOTAL	2,768,773	3,161,870

TABLE X-9. REVENUE OF STATE OF MICHIGAN, AS DEFINED BY THE STATE OF MICHIGAN (EXCLUSIVE OF REVENUES OF STATE INSTITUTIONS OF HIGHER EDUCATION), FISCAL YEARS: 1983 AND 1984 (cont.)

(In thousands of dollars)

Source	1983	1984
From local agencies:		
Counties	113,468	87,936
Cities, villages, and townships	16,378	15,556
Colleges and universities	4,652	5,177
School districts	4,904	5,437
Multi-level governmental units	1,292	1,258
Other local agencies	1,794	9,293
TOTAL	142,491	124,659
From services:		
Charges for furnishing vehicle driver records	15,112	16,543
Revenue from patients, wards, and inmates	42,184	30,503
Other services	5,214	6,577
TOTAL	62,511	53,625
From licenses and permits:		
Liquor retailers', manufacturers', and wholesalers' licenses	11,948	12,041
Motor vehicle operators' and chauffeurs' licenses	13,287	15,223
Examination fees--financial institutions and insurance industry	3,749	4,442
Department of licensing and regulation licenses and permits	15,090	14,691
Concession and privilege fees--state parks	7,357	7,445
Motor vehicle title fees, license plate transfer and dealers' plates, various special fees, and registrations	20,876	22,992
Hunting, fishing, and trapping licenses	24,342	23,495
Public utility assessment fees	10,369	12,271
Department of Commerce licenses & permits	5,831	6,157
Department of Agriculture licenses and permits	2,352	2,891
Auto repair facilities and mechanics licenses and fees	2,670	2,720
Other licenses and permits	12,200	14,103
TOTAL	130,075	138,479

TABLE X-9. REVENUE OF STATE OF MICHIGAN, AS DEFINED BY THE STATE OF MICHIGAN (EXCLUSIVE OF REVENUES OF STATE INSTITUTIONS OF HIGHER EDUCATION), FISCAL YEARS: 1983 AND 1984 (cont.)

(In thousands of dollars)

Source	1983	1984
Miscellaneous		
Lottery operations	553,294	586,218
Revenue from escheated estates	20,171	n.a.
Air and water surveillance fees	3,637	1,882
Income from investments	43,227	95,729
Various fines, fees, and assessments	9,168	7,572
Court fines, fees, and assessments	12,571	17,192
Oil and gas royalties, fees, assignments, and rentals	35,388	47,815
International Bridge Authority payroll contributions	1,010	1,046
Environmental pollution settlements	986	n.a.
Sale of forest products on tax reverted land	3,289	4,850
Other miscellaneous	38,508	48,695
TOTAL	721,253	811,002
Other financing sources:		
Proceeds from sale of bonds	132,186	107,714
Operating transfers in:		
From general and special revenue funds	1,094,210	1,211,863
From other funds	84,792	61,479
TOTAL	1,311,189	1,381,058
TOTAL REVENUE	12,469,728	14,142,322

SOURCE: Michigan Department of Management and Budget, State of Michigan Financial Report, 1983 and 1984 (Lansing: annually), pp. 148-149 (1983), and pp. 158-159 (1984).

TABLE X-3. PERSONAL TAX AND NONTAX PAYMENTS FROM MICHIGAN AND UNITED STATES RESIDENTS: 1958 THROUGH 1983

(Tax figures in millions of dollars)

Year	Federal		Michigan as a percentage of U.S.	State		Michigan as a percentage of U.S.	Local		Michigan as a percentage of U.S.
	Michigan	United States		Michigan	United States		Michigan	United States	
1958	1,661	36,510	22.0	113	3,554	31.5	76	1,494	19.7
1959	1,848	39,652	21.5	116	4,097	35.3	65	1,463	22.5
1960	2,050	43,409	21.2	119	4,582	38.5	69	1,576	22.8
1961	1,932	44,456	23.0	123	5,012	40.7	77	1,758	22.8
1962	2,232	48,377	21.7	133	5,528	41.6	88	2,037	23.1
1963	2,403	51,225	21.3	144	6,010	41.7	143	2,168	15.2
1964	2,351	48,391	20.6	154	6,835	44.4	177	2,494	14.1
1965	2,716	53,668	19.8	176	7,578	43.1	188	2,660	14.1
1966	3,116	61,358	19.7	211	8,850	41.9	209	3,103	14.8
1967	3,251	67,091	20.6	291	9,904	34.0	254	3,802	15.0
1968	3,782	78,858	20.9	641	12,168	19.0	302	4,374	14.5
1969	4,630	94,187	20.3	760	14,484	19.1	360	5,126	14.2
1970	4,268	91,754	21.5	830	16,196	19.5	395	5,945	15.1
1971	4,204	89,599	21.3	1,042	18,378	17.6	427	6,924	16.2
1972	5,138	107,444	20.9	1,353	23,489	17.4	516	8,194	15.9
1973	5,480	113,943	20.8	1,470	25,956	17.7	537	8,867	16.5
1974	5,714	130,425	22.8	1,477	27,882	18.9	596	9,957	16.7
1975	5,433	125,175	23.0	1,483	30,592	20.6	651	11,192	17.2
1976	6,748	146,526	21.7	1,879	35,250	18.8	726	12,904	17.8
1977	8,206	169,594	20.7	2,101	40,476	19.3	812	14,525	17.9
1978	9,430	194,413	20.6	2,581	45,905	17.8	850	16,446	19.3
1979	10,442	230,012	22.0	2,778	50,148	18.1	961	18,834	19.6
1980	10,151	257,037	25.3	2,871	56,509	19.7	1,057	21,062	19.9
1981	11,199	297,710	26.6	3,081	63,021	20.5	1,162	24,718	21.3
1982	10,241	305,153	29.8	3,326	68,824	20.7	1,464	27,607	18.9
1983	9,981	294,162	29.5	4,079	77,069	18.9	1,666	30,381	18.2

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE X-6. PERCENTAGE OF GENERAL REVENUE OF STATE AND LOCAL GOVERNMENTS ORIGINATING AT FEDERAL, STATE, AND LOCAL LEVEL, MICHIGAN AND UNITED STATES: FISCAL YEARS 1963-1983

	Originating level of government						Final recipient level of government			
	Michigan			United States			Michigan		United States	
Year	Federal	State	Local	Federal	State	Local	State	Local	State	Local
1962-63	11.7	45.2	43.1	13.9	40.8	45.4	34.2	65.8	35.1	64.9
1963-64	12.9	45.1	42.0	14.6	41.2	44.2	36.6	63.4	36.2	63.8
1964-65	12.6	45.9	41.5	14.8	41.2	44.0	37.2	62.8	36.1	63.9
1965-66	12.7	46.3	41.0	15.8	41.6	42.6	36.2	63.8	36.6	63.4
1966-67	14.6	45.3	40.1	16.9	41.4	41.7	35.4	64.6	36.9	63.1
1967-68	13.6	47.7	38.5	16.9	42.6	40.3	40.0	59.9	38.3	61.6
1968-69	13.1	48.8	37.9	16.7	43.2	40.0	39.9	60.0	37.9	62.0
1969-70	13.8	46.7	39.3	16.7	43.9	39.3	38.2	61.7	38.8	61.1
1970-71	15.4	45.6	38.9	18.0	42.2	39.6	37.6	62.3	37.2	62.7
1971-72	16.5	45.1	38.4	18.7	42.2	39.1	39.4	60.6	37.9	62.1
1972-73	19.7	45.8	34.5	20.6	42.3	37.1	42.5	57.5	38.5	61.5
1973-74	18.8	45.1	36.1	20.1	42.9	36.9	39.7	60.3	37.4	62.6
1974-75	20.5	41.3	38.2	20.6	42.4	37.0	37.2	62.8	36.6	63.4
1975-76	23.0	39.7	37.3	21.7	41.9	36.4	37.3	62.7	38.1	61.9
1976-77	21.5	43.7	34.7	21.9	42.4	35.7	39.4	60.6	38.3	61.7
1977-78	21.6	45.3	33.1	22.0	42.9	35.0	39.4	60.6	40.8	59.2
1978-79	21.1	45.3	33.6	21.9	44.0	34.1	41.0	59.0	39.0	61.0
1979-80	22.3	42.7	35.0	21.7	44.3	34.0	39.9	60.1	39.8	60.2
1980-81	21.7	41.9	36.4	21.3	44.3	34.4	42.1	57.9	39.9	60.1
1981-82	19.6	40.6	39.9	19.1	45.2	35.8	41.3	58.7	39.5	60.5
1982-83	19.1	42.3	38.6	18.5	44.7	36.8	44.4	55.6	39.5	60.5

SOURCE: Bureau of the Census, U.S. Census of Governments, 1972, vol. 4, Government Finances, no. 5, Compendium of Government Finances (Washington, D.C.: 1974), Table 23, and similar census documents for 1962 (Table 25), and 1967 (Table 23); and Bureau of the Census, Governmental Finances, 1981-82 (Washington, D.C.: 1983), Series GF-82, no. 5, Table 8; and Governmental Finances 1982-83, (Washington, D.C.: 1984), Table 8.

NOTE: Includes revenues of public institutions of higher education, exclusive of their state or local support.

TABLE X-11. FEDERAL, STATE, AND LOCAL GOVERNMENT DIRECT GENERAL EXPENDITURES IN MICHIGAN AND THE UNITED STATES, FISCAL YEARS: 1960-1984

Fiscal year	Federal		State		Local		Total	
	Michigan	United States	Michigan	United States	Michigan	United States	Michigan	United States
1960	n.a.	n.a.	790	17,946	1,582	33,931	n.a.	n.a.
1961	n.a.	n.a.	903	19,004	1,721	37,197	n.a.	n.a.
1962	n.a.	n.a.	955	20,375	1,823	39,831	n.a.	n.a.
1963	n.a.	n.a.	972	22,491	1,974	42,324	n.a.	n.a.
1964	n.a.	n.a.	1,018	24,274	2,113	45,027	n.a.	n.a.
1965	n.a.	n.a.	1,054	26,141	2,229	48,813	n.a.	n.a.
1966	n.a.	n.a.	1,242	29,162	2,503	53,680	n.a.	n.a.
1967	n.a.	n.a.	1,553	34,249	2,771	59,101	n.a.	n.a.
1968	n.a.	n.a.	1,742	38,446	2,960	63,966	n.a.	n.a.
1969	n.a.	n.a.	1,929	43,244	3,459	73,483	n.a.	n.a.
1970	4,053	168,152	2,146	48,749	3,864	82,582	10,063	299,483
1971	4,531	182,702	2,481	56,478	4,329	94,196	11,341	333,376
1972	4,813	195,672	2,913	62,051	4,951	106,499	12,677	364,222
1973	5,452	221,354	3,280	67,264	5,302	113,822	14,034	402,440
1974	6,249	239,636	3,630	73,950	5,746	124,668	15,625	438,254
1975	7,538	279,672	4,269	86,326	6,636	143,148	18,443	509,146
1976	7,787	303,281	4,513	95,832	7,391	159,720	19,691	558,833
1977	9,466	333,212	4,801	101,891	7,723	170,938	21,990	606,041
1978	9,745	363,269	5,291	112,515	8,400	182,995	23,436	658,779
1979	10,928	394,582	5,938	124,559	9,446	201,470	26,312	720,611
1980	12,211	445,659	6,934	143,718	10,467	223,621	29,612	812,998
1981	17,614	562,219	7,178	160,474	10,998	245,102	35,790	967,795
1982	18,016	603,576	7,682	170,747	11,390	262,783	37,088	1,037,106
1983	19,978	696,780	8,312	183,732	11,984	280,924	40,274	1,161,436
1984	20,297	724,749	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

SOURCE: Bureau of the Census, 1977 Census of Governments, Compendium of Government Finances (Washington, D.C.: 1979), vol. 4, no. 5, Table 3 and 47, and similar documents for 1962 (Table 25), 1967 (Table 23), and 1972 (Table 23); Bureau of the Census, Governmental Finances, 1980-81 (Washington, D.C.: 1982), Table 13, Governmental Finances, 1982-83 (Washington, D.C.: 1983), Table 13, and similar documents for other years between quinquennial Censuses of Governments; and Executive Office of the President, Geographic Distribution of Federal Funds in Michigan, Fiscal Year 1980 (Washington, D.C.: 1981), National and State Summaries section, p. 2, Federal Expenditures by State for Fiscal Year 1984 (Washington, D.C.: annually), Table 1, and similar documents for previous years.

n.a.: not available.

TABLE X-12. DEPARTMENT OF DEFENSE MILITARY PRIME CONTRACT AWARDS IN MICHIGAN, FISCAL YEARS: 1951-1983

Year	Amount ($000)	Percentage	Army ($000)	Navy ($000)	Air Force ($000)	Defense Logistics Agency ($000)
1951	2,470,032	8.3	1,284,119	387,769	798,144	
1952	5,253,562	13.7	2,962,445	494,408	1,796,709	
1953	1,325,201	4.9	945,775	- 55,454	434,880	
1954	- 290,738	- 2.7	- 270,078	20,420	- 41,080	
1955	35,712	0.3	211,194	48,883	- 224,365	
1956	308,292	1.9	147,112	65,750	95,430	
1957	431,234	2.4	267,668	48,727	114,839	
1958	531,791	2.5	330,432	76,355	125,004	
1959	782,914	3.6	526,739	59,114	197,031	
1960	600,947	2.9	334,353	93,495	173,099	
1961	590,480	2.7	357,155	101,274	132,051	
1962	677,787	2.7	428,785	117,202	117,917	13,829[a]
1963	633,047	2.5	392,644	89,235	121,205	29,963[b]
1964	591,290	2.4	358,641	71,195	104,052	57,402
1965	532,897	2.3	348,357	53,483	93,185	37,872[c]
1966	918,426	2.9	637,194[d]	60,811	133,809	86,612
1967	1,033,706	2.8	673,068[e]	89,224	120,280	151,134
1968	796,296	2.1	524,901[e]	86,397	94,688	90,310
1969	683,215	1.9	461,992[e]	51,015	93,006	77,202
1970	562,786	1.9	365,147[e]	40,819	81,757	75,063
1971	448,699	1.6	304,624[e]	28,205	67,120	48,750
1972	468,330	1.5	315,934[e]	41,320	57,486	53,590
1973	493,952	1.6	344,291[e]	32,677	56,242	60,742
1974	925,012	2.8	742,850[e]	48,297	67,286	66,579
1975	766,063	2.1	576,811[e]	43,388	68,869	76,995
1976	965,160	2.5	784,636[e]	41,858	61,974	76,692
1977	1,244,458	2.7	962,836[e]	65,241	119,117	97,204
1978	1,382,180	2.6	1,052,827[e]	104,090	127,510	97,753
1979	1,493,592	2.6	1,165,361[e]	118,895	107,989	101,347
1980	1,695,844[e]	2.6	1,289,176	138,004	120,847	144,660

TABLE X-12. DEPARTMENT OF DEFENSE MILITARY PRIME CONTRACT AWARDS IN MICHIGAN, FISCAL YEARS: 1951-1983 (cont.)

Year	Amount ($000)	Percentage	Army ($000)	Navy ($000)	Air Force ($000)	Defense Logistics Agency ($000)
1981	1,736,332[e]	2.0	1,191,329	223,433[f]	181,313	140,257
1982	1,540,154[e]	1.5	944,244	242,865[f]	236,798	116,247
1983	1,782,163[e]	1.5	1,078,000	260,151[f]	236,798	207,214

SOURCE: Department of Defense, Military Prime Contract Awards by State, (Washington, D.C.: annually); and Atlas/State Data Abstract for the United States (Washington, D.C.: annually).

a. Includes awards since January 1, 1962, for certain common supplies for which procurement responsibility was transferred from the military department.
b. Procurements by three Department of Defense agencies: the Defense Communication Agency, Office of Civil Defense, and Office of the Secretary of Defense. These agencies are included in procurement statistics for the first time in fiscal year 1963.
c. Procurements by three Department of Defense agencies: the Defense Communication Agency, Office of Civil Defense, and Office of the Secretary of Defense. The Office of Civil Defense is included in totals for the Army beginning in fiscal year 1965.
d. Beginning in fiscal year 1966, other defense agencies, previously listed separately, are shown in totals for the Army.
e. Includes totals for other defense agencies.
f. Includes totals for Marine Corps.

TABLE X-13. DISTRIBUTION OF FEDERAL FUNDS, MICHIGAN AND THE UNITED STATES: FISCAL YEARS 1981-1984

	Grants to state and local governments	Salaries and wages	Direct payments to individuals	Procurements	Other major programs	Total
			(In millions of dollars)			
1981						
Michigan	4,108	795	10,584	2,011	116	17,614
United States	94,806	74,169	259,653	128,188	5,402	562,219
1982						
Michigan	3,634	889	11,546	1,840	106	18,016
United States	88,221	78,043	286,080	145,816	5,415	603,576
1983						
Michigan	3,614	1,626	12,531	1,941	266	19,978
United States	92,712	102,601	325,882	158,929	16,656	696,780
1984						
Michigan	3,776	1,743	11,719	2,798	261	20,297
United States	97,209	108,653	325,881	176,470	16,536	724,749

SOURCE: Bureau of the Census, Federal Expenditures by State for Fiscal Year 1984 (Washington, D.C.: annually), Table 1, and similar documents for prior years.

TABLE X-14. EXPENDITURES OF MICHIGAN LOCAL GOVERNMENTS AS DEFINED BY THE BUREAU OF THE CENSUS, FISCAL YEARS: 1972, 1977, 1981, 1982 AND 1983

(In millions of dollars)

Item	1972	1977	1981	1982	1983
General expenditure	5,046.2	7,744.1	10,997.8	11,390.2	11,983.8
Intergovernmental, net	95.0	20.7	20.9	34.4	39.0
Direct expenditure	4,951.3	7,723.4	12,096.8	12,565.6	13,300.8
Education	2,396.6	3,622.6	5,074.0	5,166.6	5,314.8
Higher	100.1	238.6	389.5	376.0	477.6
Local schools	2,296.5	3,384.0	4,684.5	4,790.5	4,837.2
Highways	351.3	507.5	708.1	660.9	683.5
Capital outlay	159.8	193.8	228.9	195.4	191.7
Other	191.5	313.7	479.2	465.5	491.8
Public welfare	141.6	229.3	177.3	180.8	217.8
Health and hospitals	256.2	415.8	855.4	1,045.9	1,159.9
Police protection	245.0	425.6	616.6	671.3	683.3
Fire protection	107.9	184.1	267.6	288.8	307.1
Sewerage	316.8	291.5	567.2	556.0	710.5
Other sanitation	67.8	92.7	146.0	144.7	144.7
Parks and recreation	87.1	153.3	289.4	258.6	262.1
Urban renewal[b]	81.1	89.0	247.9	176.1	147.9
Airports	26.5	48.7	45.5	50.8	52.4
Correction	32.3	67.8	121.2	132.2	161.4
Libraries	28.7	41.9	62.1	65.5	65.3
Financial administration	60.2	97.6	193.5	205.9	220.5
General control	139.6	232.6	355.8	376.6	401.0
General public buildings	39.1	69.6	108.6	88.5	88.0
Interest on general debt	201.6	298.5	394.2	401.0	478.2
Other	304.3	677.7	700.5	861.5	826.5
Utility expenditure	334.1	513.0	840.2	905.3	1,027.5
Insurance trust expenditure, Employee retirement	97.9	153.4	258.7	270.1	--
TOTAL	5,478.3	8,410.5	12,117.7	12,600.0[c]	13,339.9[c]

SOURCE: Bureau of the Census, U.S. Census of Governments, 1977, vol. 4, Government Finances, no. 5, Compendium of Government Finances (Washington, D.C.: 1972), Table 46; Bureau of the Census, Government Finances, 1981-1982 (Washington, D.C.: 1983), Series GF-82, no. 5, Table 13; and Government Finances, 1982-83, (Washington, D.C.: 1984), Table 13.

a. Includes natural resources.
b. Includes housing.
c. Net of duplicative intergovernmental transactions.

TABLE X-15. EXPENDITURES OF THE STATE OF MICHIGAN AS DEFINED BY THE BUREAU OF THE CENSUS, FISCAL YEARS: 1972, 1977, 1981, 1982, AND 1983

(In millions of dollars)

Item	1972	1977	1981	1982	1983
General Expenditure	4,532.0	7,649.3	10,993.0	11,506.5	12,149.7
Intergovernmental expenditure	1,619.1	2,848.3	3,814.8	3,824.8	3,837.8
Direct expenditure	2,912.9	4,800.9	7,178.2	7,681.7	8,311.8
General expenditure by function:					
Educational services:					
Education	867.4	1,296.6	3,833.5	3,864.0	3,815.8
Higher education	714.5	1,038.2	1,510.9	1,596.3	1,651.5
Libraries	n.a.	n.a.	17.4	12.2	11.3
Social Services:					
Public welfare	948.4	1,767.8	3,031.6	3,254.0	3,535.8
Hospitals	218.6	339.4	518.6	690.9	754.7
Health	44.0	126.1	542.5	553.0	577.2
Emp. security admin.	55.2	99.1	148.4	150.8	158.9
Transportation:					
Highways	344.5	392.0	888.4	894.4	879.0
Airports	6.9	13.5	15.2	16.8	22.2
Water transp. & terminals	n.a.	n.a.	12.5	8.0	7.7
Public safety:					
Correction	50.7	119.2	212.4	242.1	245.1
Police protection	38.5	65.6	106.1	115.2	117.0
Protective inspection	n.a.	n.a.	68.7	73.9	81.3
Environment and housing					
Natural resources	83.9	91.8	135.1	140.7	146.8
Housing & urban renewal	1.9	4.2	10.0	11.0	11.2
Governmental administration:					
Financial administr.	46.4	80.9	98.3	97.7	115.5
General control	40.1	73.5	115.4	173.1	192.8
General public buildings	n.a.	n.a.	21.8	25.5	27.7
Interest on general debt	57.0	105.1	239.7	244.6[a]	318.9[b]
Other general exp.	109.2	226.0	899.3	886.5	1,087.9
Insurance trust exp.:	370.6	1,141.3	1,959.5	2,137.3	2,301.6
Unemployment compensation	260.0	842.1	1,577.8	1,576.7	1,688.6
Employee retirement	96.2	269.9	310.5	371.3	433.3
Workmen's compensation	14.4	29.2	71.4	189.3	179.7
Liquor stores exp.	247.7	280.2	343.1	353.4	338.1
EXPENDITURE TOTAL	5,150.3	9,070.8	13,295.5	13,996.8	14,789.4

SOURCE: Bureau of the Census, U.S. Census of Governments, 1977, vol. 4, Compendium of Government Finances (Washington, D.C.: 1972), Table 46; and Bureau of the Census, State Government Finances, 1982 (Washington, D.C.: 1983), Series GF-82, no. 3, Table 9; and State Government Finances in 1983 (Washington, D.C.: 1984), Table 9.

[a] Includes $111,422,000 of State Housing Finance Authority and $59,496,000 of Michigan Hospital Finance Authority.

[b] Includes $121,162,000 interest payments of Michigan Housing Finance Authority and $100,344,000 of Michigan Hospital Finance Authority.

TABLE X-16. EXPENDITURES BY FUND FOR THE STATE OF MICHIGAN AS DEFINED BY THE STATE OF MICHIGAN (INCLUDING PAYMENTS FROM THE GENERAL FUND TO INSTITUTIONS OF HIGHER EDUCATION): FISCAL YEAR 1984

Fund	Expenditures ($1,000)
General Fund	
Total, 1984	$ 9,051,729
Executive	2,636
Legislative	74,121
Judicial	91,925
Management and budget	819,150
Attorney general	21,748
Civil rights	9,910
Civil service	10,614
State	74,825
Treasury	152,306
Education	894,459
Other education	862,635
Public health	231,135
Mental health	714,712
Social services	4,084,035
Corrections	272,200
Military affairs	15,876
State police	149,465
Transportation	9,325
Commerce	137,626
Labor	213,051
Licensing	15,741
Natural resources	151,708
Agriculture	35,600
Expenditures not assigned	6,913
Special Revenue Funds	
Transportation related funds	1,147,752
Total, 1984	
State aeronautics fund	28,216
State trunkline fund	516,808
Michigan transportation fund	437,227
Comprehensive transportation fund	93,212
Comprehensive transportation bond construction fund	9,850
1983 state trunkline fund bond proceeds fund	46,469
1984 comprehensive transportation bond proceeds fund	15,696
1984 state trunkline fund bond proceeds fund	270
Conservation and recreation related funds	
Total, 1984	13,151
Game and fish protection fund	490
Michigan state waterways fund	1,924
Marine safety fund	40
State part improvement fund	2,642
State recreational land acquisition trust fund	6,403
Water pollution control bond fund	1,649
Regulatory and administrative related funds	
Total, 1984	492,233
Michigan Employment Security Act administration fund	136,140
Michigan justice training fund	2,766
State lottery fund	353,326

TABLE X-16. EXPENDITURES BY FUND FOR THE STATE OF MICHIGAN AS DEFINED BY THE STATE OF MICHIGAN (INCLUDING PAYMENTS FROM THE GENERAL FUND TO INSTITUTIONS OF HIGHER EDUCATION): FISCAL YEAR 1984 (cont.)

Fund	Expenditures ($1,000)
Special Revenue Funds - continued	
State authorities and governmental funds	
Total, 1984	70,047
State building authority	67,253
Michigan higher education facilities authority	4
Michigan family farm development authority	110
Michigan job development authority	416
Mackinac Bridge authority	2,263
Other special funds	
Total, 1984	1,959,676
Michigan veterans' benefit trust fund	4,036
School aid fund	1,953,207
School bond loan fund	2,017
Children's trust fund	415
Debt Service Funds	
Total, 1984	97,711
Water pollution control bond and interest redemption fund	16,685
Public recreation bond and interest redemption fund	4,514
Vietnam veteran era bonus bond redemption fund	32,168
Comprehensive transportation bond and interest redemption fund	16,129
1983 state trunkline fund bond and interest redemption fund	10,695
1984 comprehensive bond and interest redemption fund	3,145
Michigan trunkline bond and interest redemption fund series II thru IX	16,180
School loan bond redemption fund	11,736
Expressway bond and interest redemption fund	7,645
State park revenue bond fund	1,413
State building authority	57,975
Mackinac Bridge authority	6,491
Capital Projects Funds	
Total, 1984	1,036
Public recreation bond fund	366
Detroit x-way construction fund	670
Enterprise funds[a]	
Total, 1984	654,340
Liquor purchase revolving fund	354,193
Michigan state fair revolving fund	4,516
Department of natural resources magazine fund	1,667
Michigan state hospital finance authority	107,173
Michigan higher educational student loan authority	30,013
Mackinac Island State Park Commission	2,387
Michigan economic development authority	4,770
Michigan state housing development authority	149,706

TABLE X-16. EXPENDITURES BY FUND FOR THE STATE OF MICHIGAN AS DEFINED BY THE STATE OF MICHIGAN (INCLUDING PAYMENTS FROM THE GENERAL FUND TO INSTITUTIONS OF HIGHER EDUCATION): FISCAL YEAR 1984 (cont.)

Fund	Expenditures ($1,000)
Internal Service Funds[a]	
Total, 1984	261,092
Correctional industries revolving fund	11,345
Federal surplus revolving fund	704
Central drug repackaging revolving fund	4,844
Motor transport revolving fund	16,719
Office services revolving fund	21,186
State sponsored group insurance fund	206,292
Trust fund	
Total, 1984	484,851
Legislative trust fund	1,986
State police pension accident, and disability trust fund	11,385
State employees' retirement fund	114,685
Public school employees' retirement fund	353,222
Probate judges' retirement fund	762
Judges' retirement fund	2,858

SOURCE: Michigan Department of Management and Budget, State of Michigan Comprehensive Annual Financial Report, Fiscal Year Ended September 30, 1984, pp. 50-149.

a. Both operating and nonoperating expenditures are included in entry.

TABLE X-10. REVENUE OF LOCAL GOVERNMENTS IN MICHIGAN, BY LEVEL OF GOVERNMENT: 1982-1983

(In millions of dollars)

Item	All local governments	Counties	Munici-palities	Townships	Special districts	School districts
Total revenue[a]	13,413.5	2,694.7	4,572.8	550.5	543.7	5,565.9
General revenue total[a]	12,222.7	2,592.2	3,603.8	479.3	495.7	5,565.9
Intergovernmental revenue[a]	3,973.0	1,194.4	1,269.9	145.3	212.7	1,664.8
From federal government	977.7	207.0	548.4	31.4	127.2	63.8
From state government	2,995.3	746.4	624.0	107.6	60.8	1,456.4
General revenue from own sources	8,249.8	1,397.8	2,333.9	334.0	283.0	3,901.1
Tax revenue	5,405.0	584.3	1,235.2	172.2	17.4	3,396.0
Property tax	5,009.3	570.3	876.8	166.3	17.4	3,378.5
Other taxes	395.7	14.0	358.4	5.8	--	17.4
Charges and miscellaneous revenue	2,844.8	813.5	1,098.7	161.8	265.6	505.1
Utility system and liquor store revenue	764.3	14.8	634.8	66.7	48.0	--
Employee retirement revenue	426.5	87.8	334.2	4.5	--	--

SOURCE: Bureau of the Census, Governmental Finances in 1982-83 (Washington, D.C.: 1984), GF83, No. 5, Table 23.

a. Duplicative intergovernmental transactions are excluded.

TABLE X-17. ASSESSED VALUATIONS OF MICHIGAN'S COUNTIES APPROVED BY BOARD OF REVIEW, STATE TAX COMMISSION: 1982, 1983 AND 1984

(In thousands of dollars)

County	Real property			Personal property		
	1982	1983	1984	1982	1983	1984
Alcona	181,605	202,261	213,699	6,297	6,693	6,766
Alger	62,560	70,813	90,116	9,849	10,142	10,417
Allegan	725,297	767,488	927,180	106,217	112,411	122,992
Alpena	301,104	314,753	361,733	45,802	46,232	46,733
Antrim	304,261	322,050	351,763	12,954	14,034	14,292
Arenac	174,767	186,575	200,254	10,117	11,014	10,954
Baraga	46,773	64,122	71,286	6,566	6,592	6,758
Barry	368,272	380,335	419,935	25,623	25,944	27,581
Bay	1,265,235	1,272,388	1,391,010	106,148	105,390	109,570
Benzie	165,860	178,790	200,154	7,324	7,988	8,160
Berrien	1,645,671	1,699,905	1,988,858	228,589	226,224	223,459
Branch	358,751	367,088	396,167	30,227	28,966	30,090
Calhoun	986,500	1,028,186	1,200,712	147,640	160,046	171,577
Cass	440,268	482,704	532,262	34,204	36,112	37,697
Charlevoix	334,277	350,008	398,088	27,696	29,962	29,920
Cheboygan	255,246	271,020	305,870	20,867	21,088	22,026
Chippewa	221,451	231,780	252,092	19,836	20,550	20,491
Clare	243,415	258,416	320,487	47,392	52,813	53,000
Clinton	511,931	539,243	588,517	36,637	37,954	38,662
Crawford	141,114	144,526	168,807	12,976	13,686	15,846
Delta	261,184	283,139	345,566	58,527	60,259	57,437
Dickinson	214,678	222,822	262,858	23,862	25,075	28,841
Eaton	844,167	872,972	967,506	73,498	90,732	78,369
Emmet	328,758	365,175	422,274	33,199	33,628	34,565
Genesee	3,752,944	3,735,328	4,308,152	563,504	561,205	565,033

TABLE X-17. ASSESSED VALUATIONS OF MICHIGAN'S COUNTIES APPROVED BY BOARD OF REVIEW, STATE TAX COMMISSION: 1982, 1983 AND 1984 (cont.)

(In thousands of dollars)

County	Real property			Personal property		
	1982	1983	1984	1982	1983	1984
Gladwin	162,660	176,584	219,124	17,207	15,143	15,675
Gogebic	124,777	129,031	164,025	29,489	29,832	29,731
Grand Traverse	624,224	749,261	849,987	77,299	77,856	77,106
Gratiot	375,938	395,059	446,816	36,411	37,651	40,281
Hillsdale	407,837	400,622	427,731	27,488	26,351	28,734
Houghton	200,142	202,852	234,045	28,114	27,058	26,764
Huron	634,197	676,815	749,040	33,952	36,094	40,418
Ingham	2,140,253	2,236,960	2,595,736	320,487	326,494	330,017
Ionia	374,309	380,627	421,899	30,639	33,091	34,970
Iosco	274,847	290,741	328,391	20,197	20,190	21,283
Iron	132,893	128,268	150,636	20,261	21,058	21,111
Isabella	377,273	391,758	448,594	33,991	37,605	39,428
Jackson	1,081,112	1,068,503	1,247,880	157,781	153,864	156,376
Kalamazoo	1,890,898	2,001,016	2,355,350	258,728	276,598	290,396
Kalkaska	157,693	169,447	259,544	84,822	85,012	83,670
Kent	3,907,932	4,102,978	4,835,837	517,287	550,354	579,640
Keweenaw	21,869	24,210	28,453	3,318	3,735	3,687
Lake	133,798	146,803	154,504	5,830	7,007	7,072
Lapeer	670,768	685,412	750,567	51,263	51,315	52,689
Leelanau	341,238	359,571	390,708	10,319	11,073	11,141
Lenawee	936,673	931,067	1,027,149	100,875	97,617	100,278
Livingston	1,174,512	1,178,418	1,284,767	102,474	101,266	106,052
Luce	39,019	42,710	45,951	2,070	2,294	2,204
Mackinac	137,837	155,667	195,722	32,418	33,319	33,927
Macomb	6,776,671	6,816,945	7,828,868	843,972	868,783	926,358

TABLE X-17. ASSESSED VALUATIONS OF MICHIGAN'S COUNTIES APPROVED BY BOARD OF REVIEW, STATE TAX COMMISSION: 1982, 1983 AND 1984 (cont.)

(In thousands of dollars)

County	Real property			Personal property		
	1982	1983	1984	1982	1983	1984
Manistee	182,655	232,261	314,303	71,010	69,613	73,673
Marquette	591,155	576,248	647,657	57,064	57,350	56,861
Mason	497,959	514,920	569,089	42,280	43,612	43,821
Mecosta	296,772	317,708	374,019	43,134	44,472	47,461
Menominee	203,660	223,517	242,283	16,665	16,702	18,489
Midland	836,895	889,365	1,524,369	521,678	573,337	617,267
Missaukee	124,259	137,457	169,123	19,413	25,945	25,128
Monroe	1,699,750	1,804,545	2,095,436	167,581	182,100	232,555
Montcalm	388,966	410,912	498,184	54,709	59,968	64,725
Montmorency	117,641	122,563	135,259	4,800	5,157	6,599
Muskegon	1,110,316	1,134,281	1,304,320	138,012	151,982	155,402
Newaygo	314,323	347,185	402,024	30,072	34,345	35,888
Oakland	12,527,708	12,772,683	14,390,974	1,198,002	1,231,959	1,322,736
Oceana	217,282	229,211	249,638	11,917	11,388	12,055
Ogemaw	202,749	208,590	231,062	17,624	18,222	19,042
Ontonagon	90,950	89,472	102,314	11,404	11,468	11,339
Osceola	192,250	198,762	249,820	38,458	43,425	45,836
Oscoda	86,684	106,762	116,437	6,279	6,763	6,932
Otsego	210,531	255,461	339,835	50,167	70,105	72,636
Ottawa	1,768,884	1,841,695	2,061,112	157,045	163,508	168,836
Presque Isle	170,289	175,645	199,159	20,171	20,040	20,166
Roscommon	287,422	303,529	333,277	18,240	17,902	19,778
Saginaw	1,964,421	1,998,968	2,291,447	283,637	276,784	271,659
St. Clair	1,652,377	1,699,857	1,979,030	198,530	228,233	230,283
St. Joseph	519,541	533,737	620,907	58,459	59,503	63,353

TABLE X-17. ASSESSED VALUATIONS OF MICHIGAN'S COUNTIES APPROVED BY BOARD OF REVIEW, STATE TAX COMMISSION: 1982, 1983 AND 1984 (cont.)

(In thousands of dollars)

County	Real property 1982	Real property 1983	Real property 1984	Personal property 1982	Personal property 1983	Personal property 1984
Sanilac	496,010	498,341	527,438	26,224	26,495	27,421
Schoolcraft	69,613	73,727	89,191	13,446	13,715	14,055
Shiawassee	565,395	567,788	615,298	41,439	41,019	43,297
Tuscola	566,204	602,913	664,126	36,489	37,348	38,813
Van Buren	541,857	569,952	651,996	60,914	67,317	58,731
Washtenaw	2,840,494	2,867,103	3,371,562	370,033	395,279	416,673
Wayne	15,829,168	15,675,162	18,244,113	2,654,110	2,259,876	2,630,318
Wexford	205,707	226,912	256,918	23,396	22,604	23,397
TOTAL	84,605,350	86,665,444	99,988,390	11,018,264	11,302,045	11,725,469

SOURCE: Michigan State Tax Commission, special release.

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Adrian	169,228,100	973,062	2,536,500	7,006,636	62.14	10,516,198
Albion	56,623,687	340,875	643,755	2,184,542	55.97	3,169,171
Algonac	36,251,936	223,674	542,362	1,199,939	54.23	1,965,975
Allegan	43,812,227	282,427	510,421	1,185,287	45.15	1,978,135
Allen Park	378,376,460	2,769,716	6,928,073	15,574,765	66.79	25,272,553
Alma	71,099,700	405,268	1,091,388	2,826,923	60.81	4,323,581
Alpena	144,111,400	1,147,127	2,857,764	4,641,828	60.00	8,646,719
Ann Arbor	1,319,090,310	8,300,163	21,519,022	53,357,203	63.06	83,176,388
Auburn	17,963,300	150,224	162,433	675,122	54.99	987,779
Au Gres	10,771,000	65,703	160,294	285,941	47.53	511,939
Bad Axe	33,377,178	134,163	440,579	848,782	42.65	1,423,523
Bangor	11,528,338	73,201	177,502	397,728	56.25	648,431
Battle Creek	493,010,960	2,967,926	5,176,615	20,802,538	58.71	28,947,079
Bay City	292,591,400	2,446,874	6,878,199	10,879,525	69.05	20,204,518
Beaverton	7,385,755	58,929	127,347	221,462	55.21	407,738
Belding	37,828,400	195,573	546,323	1,241,759	52.41	1,983,655
Belleville	25,223,032	184,633	358,167	976,636	60.24	1,519,435
Benton Harbor	49,037,770	268,040	1,554,501	1,771,014	73.23	3,593,555
Berkley	151,969,450	780,986	2,909,915	6,935,686	69.93	10,626,587
Bessemer City	12,398,783	80,592	198,257	441,645	58.11	720,493
Big Rapids	63,030,600	406,961	536,176	2,018,870	46.99	2,962,007
Birmingham	432,065,650	2,220,429	6,831,349	13,890,911	53.10	22,942,688
Bloomfield Hills	201,431,750	1,035,178	1,949,442	6,093,675	45.07	9,078,295
Boyne City	32,679,450	158,603	585,943	1,132,016	57.42	1,876,562
Bridgman	23,955,500	130,941	449,168	291,943	36.40	872,052

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Brighton	68,173,650	400,520	1,175,995	2,767,850	63.73	4,344,366
Bronson	15,499,237	103,876	242,495	542,783	57.37	889,154
Brown City	8,278,217	41,388	137,005	246,939	51.38	425,332
Buchanan	44,045,400	240,752	616,636	1,531,679	54.24	2,389,067
Burton	273,275,490	1,831,410	2,203,942	10,758,078	54.13	14,793,430
Cadillac	82,025,550	604,430	1,390,333	3,005,416	60.96	5,000,179
Carson City	8,591,400	48,541	171,830	306,969	61.38	527,340
Caspian	5,485,189	53,206	109,704	177,281	62.02	340,191
Cedar Springs	15,002,400	69,391	180,029	464,032	47.56	713,452
Center Line	103,764,239	464,864	1,995,386	4,228,871	64.46	6,689,121
Charlevoix	54,731,800	265,630	738,879	1,572,992	47.09	2,577,501
Charlotte	67,206,300	355,246	1,026,361	2,298,455	54.76	3,680,062
Cheboygan	41,563,554	234,003	706,580	1,226,125	52.13	2,166,708
Clare	28,332,497	155,829	435,623	1,009,487	56.51	1,600,939
Clawson	145,992,572	750,270	1,969,583	6,329,653	61.99	9,049,507
Clio	17,983,350	120,519	266,479	590,573	54.36	977,571
Coldwater	74,049,600	496,280	1,062,612	2,899,042	60.20	4,457,934
Coleman	7,502,087	40,138	142,540	272,326	60.65	455,003
Coloma	14,437,400	78,915	217,020	485,977	54.16	781,912
Coopersville	29,039,193	128,931	423,487	991,950	53.18	1,544,368
Corunna	22,258,658	151,470	343,934	762,982	56.53	1,258,386
Croswell	13,707,800	68,534	259,914	432,138	55.49	760,586
Crystal Falls	11,031,050	107,001	154,611	325,968	53.27	587,580
Davison	45,986,850	308,190	539,223	1,713,360	55.68	2,560,773
De Witt	30,001,811	168,010	390,024	1,313,779	62.39	1,871,813

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Dearborn	1,838,353,019	13,456,744	28,402,609	49,571,123	49.73	91,430,477
Dearborn Heights	608,661,283	4,455,401	9,732,496	21,920,860	59.32	36,108,757
Detroit	5,225,825,965	38,253,046	170,879,476	201,037,525	78.49	410,170,047
Dowagiac	43,242,306	237,833	778,362	1,251,865	52.45	2,268,059
Durand	26,031,160	177,142	375,944	887,683	55.35	1,440,770
East Detroit	326,124,965	1,461,040	5,348,449	13,786,668	63.15	20,596,157
East Grand Rapids	153,740,750	711,097	2,272,722	6,432,390	61.25	9,416,209
East Jordan	19,324,300	93,787	309,189	682,302	56.16	1,085,278
East Lansing	279,818,997	2,129,423	4,910,823	13,839,090	74.62	20,879,336
East Tawas	24,900,693	126,994	338,650	625,008	43.80	1,090,652
Eaton Rapids	34,935,000	184,663	478,505	1,173,816	52.58	1,836,984
Ecorse	205,769,884	1,506,236	4,732,687	6,333,101	61.10	12,572,024
Escanaba	106,784,950	542,937	1,655,182	4,086,660	58.85	6,284,779
Essexville	40,702,275	340,385	567,040	757,005	40.89	1,664,431
Evart	17,993,900	98,966	243,098	524,522	48.15	866,586
Farmington	150,990,910	775,957	1,772,633	5,579,114	53.83	8,127,705
Farmington Hills	942,688,656	4,844,571	7,377,148	35,073,478	50.17	47,295,198
Fennville	8,495,340	54,764	127,430	293,771	56.03	475,964
Fenton	87,158,005	584,107	1,302,890	3,425,878	60.96	5,312,874
Ferndale	203,607,550	1,046,360	5,240,858	9,178,052	75.96	15,465,270
Ferrysburg	31,661,030	140,575	251,139	985,070	43.42	1,376,784
Flat Rock	99,708,318	729,865	1,595,333	3,838,487	61.82	6,163,685
Flint	1,504,370,293	10,095,083	15,976,868	65,771,729	61.05	91,843,680
Flushing	86,542,403	579,981	865,424	3,142,379	53.01	4,587,785
Frankenmuth	65,843,950	433,253	586,011	1,876,776	43.98	2,896,041

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Frankfort	16,484,700	95,446	273,976	389,863	46.06	759,285
Fraser	165,976,239	743,574	2,540,100	7,346,108	64.04	10,629,782
Fremont	49,921,775	292,042	574,100	1,746,210	52.53	2,612,353
Gaastra	1,440,676	13,975	33,136	46,563	65.02	93,673
Galesburg	10,803,005	64,818	108,030	441,087	56.83	613,935
Garden City	262,168,533	1,919,074	4,456,944	11,781,911	69.26	18,157,928
Gaylord	42,916,000	195,268	457,055	1,090,495	40.61	1,742,818
Gilbraltar	47,654,026	348,827	929,254	2,108,691	71.07	3,386,772
Gladstone	27,697,500	140,825	469,115	1,009,086	58.45	1,619,027
Gladwin	20,761,592	165,653	380,940	634,163	56.87	1,180,755
Gobles	4,654,400	29,553	80,763	137,212	53.18	247,528
Grand Blanc	83,993,797	562,901	789,542	3,150,607	53.61	4,503,050
Grand Haven	130,954,420	581,438	1,817,674	4,074,385	49.43	6,473,496
Grand Ledge	48,988,033	258,946	774,011	2,090,319	63.76	3,123,276
Grand Rapids	1,563,762,350	7,232,870	14,704,683	53,474,859	48.22	75,412,412
Grandville	145,318,100	672,140	1,293,331	5,004,926	47.97	6,970,397
Grant	5,126,700	29,992	60,381	175,966	51.95	266,339
Grayling	21,451,700	173,973	278,604	617,165	49.87	1,069,743
Greenville	77,355,800	437,060	1,179,683	2,388,337	51.77	4,005,081
Grosse Pointe	124,284,346	909,761	2,078,954	4,202,377	57.86	7,191,092
Grosse Pte. Farms	249,894,837	1,829,231	3,352,940	8,449,596	54.55	13,631,766
Grosse Pte. Park	194,480,887	1,423,600	3,258,994	6,575,904	57.89	11,258,499
Grosse Pte. Woods	312,173,891	2,285,113	4,219,779	10,555,411	54.65	17,060,303
Hamtramck	104,217,500	762,872	2,449,113	3,722,649	66.54	5,934,635
Hancock	31,614,039	246,590	535,248	964,228	55.23	1,746,066

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Harbor Beach	28,501,150	114,563	494,481	714,541	46.44	1,323,585
Harbor Springs	35,359,793	173,206	289,458	754,472	37.61	1,217,136
Harper Woods	194,504,388	1,423,772	4,250,413	5,649,411	58.22	11,323,596
Harrison	16,782,640	92,305	240,495	554,582	52.88	887,382
Harrisville	5,708,250	29,968	43,782	126,723	35.12	200,474
Hart	14,779,435	79,120	203,956	429,963	48.25	713,040
Hartford	11,597,202	73,639	239,656	462,728	66.91	776,023
Hastings	57,032,500	332,807	923,928	1,891,540	55.20	3,148,276
Hazel Park	136,660,805	702,314	3,389,188	5,779,385	72.23	9,870,887
Highland Park	143,945,390	1,053,680	4,544,361	6,517,847	84.17	12,115,889
Hillsdale	56,463,056	310,547	903,409	1,823,757	53.80	3,037,712
Holland	303,847,195	1,509,313	3,863,801	11,088,179	54.18	16,461,292
Houghton	31,117,130	242,713	466,756	986,412	54.50	1,695,881
Howell	71,084,638	417,622	1,124,687	2,876,795	62.17	4,419,104
Hudson	17,715,708	101,865	201,079	684,003	55.71	986,947
Hudsonville	44,732,350	198,612	268,394	1,511,323	44.23	1,978,328
Huntington Woods	89,473,100	459,811	2,110,971	4,064,150	74.16	6,634,933
Imlay City	23,044,605	116,382	302,012	773,495	51.72	1,191,889
Inkster	174,358,511	1,276,304	4,114,861	7,514,396	74.02	12,905,561
Ionia	38,618,300	199,657	624,297	1,057,605	48.72	1,881,558
Iron Mountain	74,352,300	539,582	1,394,106	2,622,421	61.28	4,556,109
Iron River	16,763,380	162,605	352,031	541,792	63.02	1,056,428
Ironwood	39,379,200	255,965	934,756	1,442,066	66.86	2,632,787
Ishpeming	49,804,250	298,825	1,120,596	1,514,049	58.90	2,933,471
Ithaca	19,735,270	112,491	303,923	635,136	53.28	1,051,551

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total Rate	Total Taxes
Jackson	270,459,648	1,879,695	3,880,217	12,171,292	66.30	171,931,203
Kalamazoo	664,632,200	3,987,793	12,554,902	28,983,523	68.50	45,526,218
Keego Harbor	23,568,400	121,120	446,506	923,410	63.26	1,491,036
Kentwood	382,201,521	1,767,797	1,928,207	13,886,954	46.00	17,582,957
Kingsford	54,787,900	397,601	931,394	1,722,532	55.70	3,051,527
Laingsburg	5,728,545	38,983	115,546	198,139	61.56	352,668
Lake City	9,188,600	45,943	118,545	239,639	43.98	404,127
Lansing	1,167,997,788	8,832,128	13,945,781	50,915,193	63.09	73,693,102
Lapeer	59,501,650	300,501	553,372	2,011,156	48.15	2,865,029
Lathrup Village	71,611,525	368,019	1,016,177	2,671,110	56.63	4,055,306
Leslie	14,146,441	107,654	203,001	585,946	63.38	896,601
Lincoln Park	322,434,593	2,360,221	6,390,654	10,759,642	60.51	19,510,517
Litchfield	12,768,013	70,224	120,659	453,903	50.50	644,786
Livonia	1,538,824,730	11,264,197	18,042,507	64,130,548	60.72	93,437,252
Lowell	32,676,600	151,139	388,198	1,215,824	53.71	1,755,161
Ludington	84,065,200	437,139	1,474,521	1,926,775	45.66	3,838,436
Luna Pier	46,807,025	283,885	842,040	1,530,044	56.74	2,655,968
Mackinac Island	21,702,041	93,623	249,365	463,337	37.15	806,325
Madison Heights	405,068,200	2,081,686	5,410,636	15,895,612	57.74	23,387,934
Manistee	58,816,233	348,369	1,293,957	1,733,314	57.39	3,375,640
Manistique	24,575,450	175,222	491,509	845,887	61.55	1,512,618
Manton	7,692,787	56,687	100,007	228,707	50.10	385,400
Marine City	41,134,200	253,798	855,591	1,142,297	54.74	2,251,686
Marquette	248,278,795	1,489,673	2,685,625	7,771,126	48.12	11,946,424
Marshall	67,273,970	404,989	1,284,349	2,791,466	66.61	4,480,805

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Marysville	150,646,800	929,491	1,883,085	5,099,394	52.52	7,911,970
Mason	53,464,900	406,868	670,450	2,219,863	61.67	3,297,180
McBain	4,360,900	21,804	50,150	150,800	51.08	222,755
Melvindale	107,960,090	790,268	2,521,948	4,023,673	67.95	7,335,888
Memphis	8,092,044	40,530	148,378	297,172	60.07	486,080
Menominee	75,879,025	592,615	1,254,303	2,561,630	58.10	4,408,549
Midland	1,106,915,850	5,933,058	9,076,710	27,633,812	38.52	42,643,580
Milan	48,292,400	299,995	575,885	1,812,611	55.67	2,688,491
Monroe	530,996,242	3,220,492	6,408,383	16,940,889	50.04	26,569,764
Montague	18,192,219	116,430	300,141	702,835	61.53	1,119,406
Montrose	12,090,529	81,027	139,041	412,650	52.33	632,718
Morenci	14,760,900	84,875	189,914	497,295	52.31	772,084
Mt. Clemens	171,054,146	766,323	3,612,664	8,617,290	75.98	12,996,276
Mt. Morris	20,826,877	139,575	360,621	782,258	61.58	1,282,454
Mt. Pleasant	124,619,075	896,933	1,807,350	4,757,956	59.88	7,462,240
Munising	23,251,852	166,251	495,497	780,100	62.01	1,441,847
Muskegon	331,219,000	2,119,802	5,150,787	14,031,985	64.32	21,302,574
Muskegon Heights	66,645,150	426,529	1,111,308	2,948,849	67.32	4,486,686
Negaunee	30,219,800	181,319	667,190	636,072	49.13	1,484,581
New Baltimore	51,428,730	230,401	1,002,860	2,031,949	63.49	3,265,210
New Buffalo	21,424,743	117,108	393,144	647,477	54.04	1,157,729
Newaygo	9,877,411	57,783	138,291	334,844	53.75	530,918
Niles	101,608,700	555,393	1,778,355	3,883,993	61.19	6,217,741
North Muskegon	53,393,263	341,717	584,656	2,327,946	60.95	3,254,319
Northville	83,234,419	531,224	1,446,614	3,573,254	66.69	5,551,092

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Norton Shores	205,984,489	1,318,301	1,707,249	8,454,520	55.73	11,480,070
Norway	23,217,800	168,494	323,656	686,550	50.77	1,178,700
Novi	420,388,189	2,160,417	4,591,059	17,139,368	56.83	23,890,844
Oak Park	277,509,420	1,426,149	6,900,985	12,763,311	76.00	21,090,444
Olivet	6,526,800	34,500	72,816	229,156	51.55	336,472
Omer	2,100,197	12,811	29,428	66,888	51.96	109,127
Onaway	6,056,645	31,555	121,133	146,934	49.47	299,622
Orchard Lk. Vill.	58,815,880	302,261	615,214	2,309,314	54.86	3,226,789
Otesgo	42,535,400	274,196	467,889	1,266,845	47.23	2,008,930
Owosso	106,304,740	723,404	1,692,371	3,271,847	53.50	5,687,622
Parchment	37,432,900	224,597	374,330	1,680,363	60.89	2,279,290
Perry	13,056,566	88,850	190,430	420,135	53.57	699,415
Petersburg	6,749,200	40,934	161,981	241,351	65.83	444,266
Petoskey	70,618,250	377,984	808,228	2,335,346	49.87	3,521,557
Pinconning	11,649,900	97,426	213,384	394,213	60.52	705,023
Plainwell	33,068,650	213,170	459,654	1,227,121	57.45	1,899,946
Pleasant Ridge	38,253,455	196,588	813,652	1,761,189	72.45	2,771,430
Plymouth	143,492,060	1,050,362	2,475,238	5,743,987	64.60	9,269,587
Pontiac	709,509,700	3,646,241	19,819,586	28,981,343	73.92	52,447,170
Port Huron	287,944,050	1,776,630	4,716,540	10,944,816	60.56	17,437,986
Portage	523,133,200	3,138,799	5,126,705	20,850,153	55.66	29,115,657
Portland	26,394,300	136,459	395,915	903,902	54.42	1,436,275
Potterville	7,983,401	42,199	119,751	326,630	61.20	488,580
Reading	5,802,441	31,913	87,037	187,593	52.83	306,543
Reed City	16,581,800	91,200	281,898	480,872	51.50	853,970

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Richmond	28,502,897	127,693	445,215	1,002,732	55.28	1,575,640
River Rouge	244,463,493	1,789,473	5,639,773	9,042,705	67.33	16,471,950
Riverview	152,613,581	1,117,131	2,734,387	6,105,001	65.24	9,956,519
Rochester	109,710,550	563,813	1,712,516	4,369,771	60.58	6,646,101
Rockford	34,194,900	158,162	416,391	1,193,743	51.71	1,768,296
Rockwood	28,505,044	208,657	570,101	1,261,349	71.57	2,040,106
Rogers City	35,257,904	183,694	631,116	954,079	50.17	1,768,889
Romulus	306,925,080	2,246,692	3,099,943	13,548,933	61.56	18,895,568
Roosevelt Park	48,874,340	312,796	464,306	2,018,510	57.20	2,795,612
Rose City	5,931,900	37,344	94,524	180,472	52.65	312,340
Roseville	474,355,513	2,125,113	7,096,358	19,349,215	60.23	28,570,687
Royal Oak	697,038,300	3,582,150	9,908,686	30,825,073	63.58	44,315,909
Saginaw	600,265,960	3,949,750	6,548,909	26,141,583	61.04	36,640,242
Saline	101,502,900	638,691	872,925	3,925,117	53.56	5,436,733
Sandusky	23,814,820	119,065	416,759	604,896	47.90	1,140,720
Sault Ste Marie	85,703,425	569,928	2,040,599	3,188,167	67.66	5,798,694
Scottville	10,219,515	53,141	197,595	362,507	60.01	613,244
South Haven	53,878,950	342,115	860,253	1,724,665	54.33	2,927,033
South Lyon	47,200,390	242,568	835,491	1,755,382	60.03	2,833,441
Southfield	1,359,460,398	6,986,403	22,988,477	51,522,139	59.95	81,497,019
Southgate	268,790,736	1,967,548	5,752,122	10,695,756	68.51	18,415,426
Springfield	54,300,052	326,886	976,098	2,342,256	67.13	3,645,240
St. Clair	58,414,500	360,417	1,086,708	1,622,170	52.54	3,069,296
St. Clair Shores	721,188,627	3,230,925	12,476,563	28,091,366	60.73	43,798,855
St. Ignace	22,830,269	98,489	347,477	673,497	49.03	1,119,464

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
St. Johns	69,990,800	391,948	932,277	2,309,696	51.92	3,633,922
St. Joseph	123,157,100	673,177	2,295,884	4,940,007	64.22	7,909,068
St. Louis	18,223,690	103,875	258,776	655,439	55.87	1,018,090
Stambaugh	7,995,116	77,553	127,922	258,402	58.02	463,877
Standish	14,358,240	87,585	272,802	418,518	54.25	778,906
Stanton	7,307,400	41,287	87,689	277,919	55.68	406,894
Stephenson	6,672,285	52,111	16,549	175,844	36.64	244,503
Sterling Hts	1,316,946,039	5,899,918	15,553,133	54,618,470	57.76	76,071,521
Sturgis	89,982,300	428,315	1,007,802	3,026,206	49.59	4,462,323
Swartz Creek	65,743,575	440,594	696,882	2,560,712	56.25	3,698,188
Sylvan Lake	27,156,350	139,559	336,742	1,101,866	58.11	1,578,168
Tawas City	18,563,300	94,673	275,668	465,939	45.05	836,280
Taylor	578,364,357	4,233,627	12,569,535	23,793,910	70.19	40,597,071
Tecumseh	69,606,400	400,237	835,277	2,578,221	54.79	3,813,735
Three Rivers	67,407,000	320,857	1,180,499	2,196,187	54.85	3,697,544
Traverse City	217,009,332	1,366,052	2,689,659	6,803,108	50.04	10,858,819
Trenton	377,103,230	2,760,396	5,656,951	14,882,922	61.79	23,300,268
Troy	1,345,227,920	6,913,261	13,734,777	51,641,285	53.74	72,289,322
Utica	44,446,846	199,122	800,043	1,907,903	65.41	2,907,068
Vassar	22,565,400	110,570	392,094	617,164	49.63	1,119,828
Wakefield	9,923,725	64,505	203,288	346,042	61.86	613,835
Walker	199,833,714	924,291	999,169	6,527,938	42.29	8,451,398
Walled Lake	52,021,300	267,343	913,286	2,230,725	65.58	3,411,354
Warren	2,085,765,993	9,344,232	26,741,397	87,799,180	59.40	123,884,809
Watervliet	12,465,432	68,136	199,447	406,273	54.06	673,856

TABLE X-19. GOVERNMENT EMPLOYMENT AND PAYROLLS IN MICHIGAN, BY TYPE OF GOVERNMENT, FOR COUNTIES HAVING 100,000 POPULATION OR MORE AND FOR CITIES HAVING 50,000 POPULATION OR MORE: OCTOBER 1983

Type of government	Number of employees			October payroll ($000)	Average earnings[a]
	Full-time only	Full-time equivalent	Total		
State	98,544	113,855	150,566	225,467	1,993
Local	257,596	277,486	363,186	548,567	1,981
Counties	39,220	41,564	45,911	68,478	1,656
Municipalities	57,745	59,786	72,962	115,676	1,933
Townships	5,962	7,215	21,917	12,971	1,817
School dist	147,703	160,889	212,644	338,220	2,109
Special dist	6,966	8,022	9,752	13,222	1,643
TOTAL STATE AND LOCAL	356,140	391,341	513,752	774,034	1,984
Counties					
Bay	670	726	862	1,136	1,594
Berrien	1,159	1,214	1,319	1,715	1,419
Calhoun[c]	569	584	615	915	1,568
Genesee	1,580	1,662	1,780	3,421	2,074
Ingham	2,440	2,736	3,122	4,185	1,536
Jackson	716	745	796	1,078	1,453
Kalamazoo	815	841	884	1,404	1,669
Kent	1,873	2,028	2,330	3,414	1,691
Livingston[b]	382	389	403	556	1,428
Macomb	1,937	2,069	2,258	3,486	1,701
Monroe	655	681	726	1,032	1,523
Muskegon	951	982	1,082	1,507	1,538
Oakland	3,296	3,415	3,637	6,780	1,990
Ottawa	502	523	581	891	1,710
Saginaw	1,305	1,399	1,545	2,314	1,660
St. Clair	688	739	855	1,256	1,704
Washtenaw	1,304	1,331	1,521	2,223	1,671
Wayne	5,122	5,235	5,481	11,409	2,182
Cities					
Ann Arbor	828	864	1,055	1,877	2,324
Dearborn[b]	980	1,051	1,355	2,177	2,025
Dearborn Heights	318	330	408	715	2,179
Detroit	17,875	18,107	18,641	36,679	2,030
East Lansing	328	345	398	665	1,935
Farmington Hills	225	244	366	486	1,994
Flint	3,621	3,791	4,253	7,659	2,027

TABLE X-19. GOVERNMENT EMPLOYMENT AND PAYROLLS IN MICHIGAN, BY TYPE OF GOVERNMENT, FOR COUNTIES HAVING 100,000 POPULATION OR MORE AND FOR CITIES HAVING 50,000 POPULATION OR MORE: OCTOBER 1983 (cont.)

Type of government	Number of employees			October payroll ($000)	Average earnings[a]
	Full-time only	Full-time equivalent	Total		
Cities (cont.)					
Grand Rapids	1,714	1,759	2,230	3,203	1,826
Kalamazoo	935	961	1,004	1,772	1,853
Lansing	2,241	2,284	2,489	4,558	2,005
Livonia	617	647	810	1,299	2,020
Pontiac	2,171	2,188	2,248	4,211	1,925
Roseville	277	283	312	596	2,109
Royal Oak	357	374	486	772	2,067
Saginaw	678	699	802	1,350	1,942
St. Clair Shores	325	345	419	724	2,120
Southfield	629	659	778	1,507	2,294
Sterling Heights	606	623	722	1,313	2,120
Taylor[d]	392	398	429	578	1,453
Troy	337	359	485	827	2,322
Warren	956	983	1,155	2,312	2,354
Westland[d]	376	388	449	701	1,813
Wyoming	348	368	496	716	1,946

SOURCE: Bureau of the Census, Public Employment in 1983, Series GE 82, no. 1 (Washington, D.C.: 1984), Table 9; and Bureau of the Census, County Government Employment in 1983, Series GE 82, no. 4 (Washington, D.C.: 1984), Table 4; and Bureau of the Census, City Employment in 1983, Series GE 82, no. 2 (Washington, D.C.: 1984), Table 4.

NOTE: Figures include faculty and staff of state and local institutions of higher education. Average earnings by counties and cities are for employees other than teachers.

a. Full-time employees only.
b. Data are for October 1982.
c. Data are for October 1981.
d. Data are for October 1980.

TABLE X-20. FULL-TIME EQUIVALENT EMPLOYMENT OF STATE AND LOCAL GOVERNMENTS PER 10,000 POPULATION IN MICHIGAN AND THE UNITED STATES, BY FUNCTION: OCTOBER 1976, 1982, AND 1983

	Michigan			United States		
	1976	1982	1983	1976	1982	1983
Local schools						
Instructional staff	127.1	110.4	111.7	126.9	118.8	118.8
Other	72.5	55.7	55.6	53.0	52.6	51.7
TOTAL	199.6	166.1	167.2	179.9	171.4	170.5
Higher education						
Instructional staff	19.8	19.3	19.7	19.0	18.4	18.2
Other	36.9	40.5	4.4	30.2	31.5	31.4
TOTAL	56.7	59.8	61.1	49.2	49.9	49.6
Other education	2.7	2.4	2.3	4.0	3.9	3.7
TOTAL EDUCATION	258.9	228.3	230.6	233.1	225.2	223.8
Welfare	16.4	17.1	17.7	15.9	16.1	16.1
Hospitals	40.6	39.0	39.9	44.7	46.1	45.3
Health	7.1	8.3	8.4	8.8	9.9	9.8
Highways	19.0	15.0	15.0	25.7	21.9	21.6
Police	23.3	23.1	22.8	25.4	25.9	25.9
Fire protection	8.3	7.7	7.5	10.0	9.9	9.8
Sewerage	3.1	4.3	4.3	3.8	4.3	4.2
Other sanitation	3.3	2.8	2.1	5.7	4.7	4.6
Parks and recreation	5.1	5.1	5.4	6.9	7.3	7.3
Natural resources	5.6	5.2	5.3	8.2	7.2	7.2
Correction	7.8	10.1	10.6	9.6	12.0	12.7
Local libraries	2.2	1.9	2.1	3.0	2.8	2.9
Social security administration	5.4	4.5	3.9	4.8	4.1	4.4
Financial administration	10.2	9.3	9.1	12.1	12.1	11.7
General control	17.0	18.9	18.9	15.9	17.9	17.8
Water supply	4.7	4.8	4.7	5.5	5.4	5.5
Other local utilities	5.2	2.1	2.1	8.8	3.5	3.5
State liquor stores	.6	.7	.7	.7	.6	.5
Other	17.5	22.4	20.4	26.8	30.9	30.6
GRAND TOTAL INCLUDING EDUCATION	461.4	430.9	431.5	475.5	467.7	465.2

SOURCE: Bureau of the Census, Public Employment in 1983 (Washington, D.C.: 1984), GE-82, no. 1, Table 12; and similar documents for 1976 and 1982.

TABLE X-24. COMBINED BALANCE SHEET FOR THE STATE OF MICHIGAN, BY FUND TYPES AND ACCOUNT GROUPS, FOR FISCAL YEARS 1983 AND 1984

	Totals for fiscal years ended	
	1983	1984
	(In thousands of dollars)	
Assets		
Current assets:		
Cash and cash equivalents	$ 77,073	$ 93,889
Equity in common cash	1,008,153	1,506,515
Taxes, interest, and penalties receivable (at net)	1,126,268	966,668
Amounts due from other funds	87,162	97,308
Amounts due from federal agencies	399,422	425,384
Amounts due from local units (at net)	152,356	169,853
Inventories	101,105	88,787
Investments	1,096,046	850,009
Other current assets	286,219	341,143
Total current assets	4,333,807	4,539,560
Taxes, interest, and penalties receivable (at net)	20,571	49,319
Amounts due from other funds	3,326	2,996
Amounts due from local units	97,909	141,497
Mortgage notes/loans receivable	2,083,694	2,402,547
Investments	9,192,191	10,933,270
Property, plant and equipment	48,301	56,206
Other noncurrent assets	43,098	49,418
Amount available for retirement of bonds	83 689	79,479
Amount to be provided for bond retirement	1,034,921	1,167,120
Amounts to be provided for other long-term obligations	336,855	503,107
Total assets	17,278,365	19,924,522
Liabilities and Fund Equity		
Current liabilities:		
Liability to common cash	250,406	124,319
Warrants outstanding	277,165	194,083
Accounts payable and other liabilities	1,305,469	1,253,290
Estimated income tax refunds payable	682,200	748,090
Amounts due to other funds	87,162	97,308
Bonds and notes payable	96,805	121,077
Interest payable	103,295	84,051
Deferred revenue	40,094	70,658
Escrow funds	72,756	87,035
Total current liabilities	2,915,356	2,779,912
Long-term liabilities:		
Amounts due to other funds	3,326	2,996
Prize awards payable	31,104	36,207
Deferred revenue	45,425	75,553
Bonds and notes payable	3,883,664	4,289,384
Other long-term liabilities	347,443	519,422
Total liabilities	7,226,319	7,703,475

TABLE X-24. COMBINED BALANCE SHEET FOR THE STATE OF MICHIGAN, BY FUND TYPES AND ACCOUNT GROUPS, FOR FISCAL YEARS 1983 AND 1984 (cont.)

	Totals for fiscal years ended	
	1983	1984
(In thousands of dollars)		
Liabilities and Fund Equity (cont.)		
Fund equity:		
Retained earnings and contributions	209,255	288,559
Reserved fund balance	9,060,488	10,350,503
Unreserved fund balance (deficit)	782,302	1,581,983
Total fund equity (deficit)	10,052,046	12,221,045
Total liabilities and fund equity	17,278,365	19,924,522

SOURCE: Michigan Department of Management and Budget, State of Michigan Comprehensive Annual Financial Report, Fiscal Year Ended September 30, 1984, pp. 4-5.

TABLE X-25. COMBINED SCHEDULE OF BONDS AND NOTES PAYABLE OF THE STATE OF MICHIGAN, FISCAL YEARS 1979-1983

	Outstanding debt as of September 30		
Year	General obligation debt	Non-general obligation debt	Grand total
	(Thousands of dollars)		
1979	482,500	1,779,215	2,261,715
1980	439,100	2,367,839	2,806,939
1981	409,600	2,692,336	3,101,936
1982	361,000	3,205,816	3,566,816
1983	309,300	4,059,541	4,368,841

SOURCE: Municipal Finance Division, Department of Treasury, State of Michigan, special release.

TABLE X-18. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Wayland	18,138,332	116,925	234,783	597,864	52.35	949,573
Wayne	227,282,903	1,663,711	4,031,999	11,267,908	74.64	16,963,618
West Branch	18,928,229	119,161	317,207	575,872	53.48	1,012,240
Westland	612,245,803	4,481,639	10,744,915	29,044,686	72.31	44,271,240
White Cloud	8,082,986	47,285	125,300	286,542	56.80	459,128
Whitehall	38,405,820	245,797	499,276	1,603,443	61.15	2,348,516
Whittemore	2,881,022	14,693	20,468	78,162	39.33	113,323
Williamston	23,445,137	178,418	398,567	410,806	42.13	987,791
Wixom	137,921,190	708,791	1,170,675	5,894,403	56.36	7,773,869
Woodhaven	173,106,481	1,267,139	2,655,453	7,373,024	65.25	11,295,617
Wyandotte	279,933,785	2,049,115	5,206,768	11,936,377	68.56	19,192,260
Wyoming	675,663,487	3,125,146	5,459,361	23,377,949	47.31	31,962,456
Yale	13,408,017	82,727	174,304	409,615	49.72	666,647
Ypsilanti	178,542,150	1,123,448	4,396,708	7,895,134	75.13	13,414,289
Zeeland	73,906,451	328,145	724,287	2,445,860	47.33	3,498,292
Zilwaukee	18,460,025	121,467	293,514	803,934	66.03	1,218,915
STATE TOTAL	49,772,178,036	304,228,842	811,594,903	1,904,166,587	60.68	3,019,990,332

SOURCE: Michigan Department of Treasury, State Tax Commission, special release.

TABLE X-21. PERSONNEL AND EXPENDITURES, MILITARY AND CIVILIAN, OF THE DEPARTMENT OF DEFENSE BY DEFENSE DIVISION AND CATEGORY IN MICHIGAN, FISCAL YEAR 1984

(Dollars in thousands)

	Total	Army	Navy and Marine Corps	Air Force	Other defense activities
Personnel - total	21,343	8,526	729	10,025	2,063
Active duty military	9,267	883	635	7,749	0
Civilian	12,076	7,643	94	2,276	2,063
Expenditures - total	$3,259,959	$2,066,991	$380,331	$575,008	$237,629
Payroll outlays - total	749,954	344,354	69,918	272,445	63,237
Active duty military pay	174,912	31,761	11,254	131,897	0
Civilian pay	324,977	206,322	2,141	53,277	63,237
Reserve and national guard pay	73,712	42,745	15,449	15,518	0
Retired military pay	176,353	63,526	41,074	71,753	0
Prime contracts over $25,000 - total	2,510,005	1,722,637	310,413	302,563	174,392
Supply contracts	1,984,813	1,503,786	96,456	221,287	163,284
R&D contracts	295,023	80,890	198,007	14,286	1,840
Service contracts	196,328	111,336	8,851	66,873	9,268
Construction contracts	20,076	12,860	7,099	117	0
Civil function contracts	13,765	13,765	0	0	0

SOURCE: U.S. Department of Defense, Atlas/State Data Abstract for the United States, Fiscal Year 1984 (Washington, D.C.: 1985).

TABLE X-22. EXPENDITURES AND PERSONNEL, MILITARY AND CIVILIAN, OF THE DEPARTMENT OF DEFENSE BY INSTALLATION IN MICHIGAN, FISCAL YEAR 1984

Major locations of expenditures	Expenditures ($1,000) Total	Payroll outlays	Prime contracts	Major locations of personnel	Military and civilian personnel Total	Active duty military	Civilian
Warren	$877,725	$167,362	$710,363	Warren	5,493	3	5,490
Detroit	322,245	55,858	266,387	K. I. Sawyer AFB	4,497	4,062	435
Pontiac	271,576	3,056	268,520	Wurtsmith AFB	3,608	3,216	392
Walled Lake	215,168	1,422	213,746	Battle Creek	2,084	30	2,054
Center Line	124,838	270	124,568	Detroit	1,651	920	731
Grand Rapids	106,756	8,334	98,422	Selfridge ANGB	1,258	251	1,007
K. I. Sawyer AFB	93,991	77,684	16,307	Lansing	576	310	266
Muskegon AEP	86,068	0	86,068	Sterling Heights	567	1	566
Battle Creek	79,228	65,483	13,745	Sault Ste Marie	182	0	182
Wurtsmith AFB	78,937	63,693	15,244	Grand Rapids	127	23	104

SOURCE: U.S. Department of Defense, Atlas/State Data Abstract for the United States, Fiscal Year 1984, (Washington, D.C.: 1985).

TABLE X-23. TOP FIVE CONTRACTORS FOR DEPARTMENT OF DEFENSE IN MICHIGAN AND MAJOR LOCATIONS OF PERFORMANCE, FISCAL YEAR 1984

(In thousands of dollars)

Contractors receiving the largest dollar volume of prime contract awards	Total amount	Major area of work: FSC or service code description	Amount
General Dynamics Corp	$790,857	Combat assault & tactical VEH tracked	$484,214
General Motors Truck & Bus	266,541	Trucks and truck tractors wheeled	255,559
AM General Corporation	223,364	Trucks and truck tractors wheeled	214,568
Williams International Corp	212,718	RDTE/missile and space systems	174,568
Teledyne Industries, Inc.	83,589	Diesel engines and components	76,766
Total	$1,577,069		

SOURCE: U. S. Department of Defense, Atlas/State Data Abstract for the United States, Fiscal Year, 1984 (Washington, D.C.: 1985).

TABLE X-28. RANKING OF MICHIGAN COUNTIES ACCORDING TO LABOR AND PROPRIETORS' EARNINGS IN ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS FEDERAL GOVERNMENT AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

County	Percentage		County	Percentage	
	1973	1983		1973	1983
Iosco	46.54	47.63	Roscommon	1.60	1.66
Marquette	22.42	21.07	Schoolcraft	2.16	1.62
Chippewa	41.76	9.96	Mason	1.39	1.62
Calhoun	6.08	9.34	Newaygo	1.35	1.57
Dickinson	8.77	9.02	Shiawassee	1.38	1.55
Macomb	4.82	5.79	Tuscola	1.27	1.54
Houghton	5.72	5.36	St. Clair	1.59	1.52
Leelanau	5.46	4.97	Ionia	1.23	1.50
Gogebic	3.37	4.75	Van Buren	1.42	1.49
Cheboygan	2.74	4.65	Osceola	1.41	1.48
Alcona	4.42	4.14	Barry	1.36	1.48
Lake	2.66	3.74	Manistee	2.09	1.47
Mackinac	2.64	3.72	Isabella	1.57	1.44
Charlevoix	2.82	3.34	Kalamazoo	1.59	1.41
Oscoda	(D)	2.98	Menominee	1.51	1.40
Missaukee	(D)	2.74	Allegan	1.38	1.39
Delta	2.17	2.62	Livingston	1.44	1.34
Alger	2.10	2.62	Mecosta	1.49	1.32
Wexford	2.42	2.60	Lapeer	1.28	1.32
Clinton	2.02	2.60	Jackson	1.21	1.31
Otsego	3.11	2.59	Hillsdale	1.24	1.31
Benzie	2.13	2.45	Alpena	2.22	1.28
Arenac	2.20	2.45	Bay	1.22	1.28
Grand Traverse	2.39	2.42	Cass	1.20	1.26
Montmorency	(D)	2.40	Muskegon	1.10	1.25
Oceana	2.50	2.39	Gratiot	1.15	1.23
Huron	1.83	2.37	Kent	1.33	1.22
Wayne	1.87	2.35	Berrien	0.92	1.16
Gladwin	1.89	2.25	Montcalm	1.24	1.12
Ingham	2.06	2.17	Lenawee	0.86	1.11
Antrim	1.91	2.01	Monroe	1.52	1.08
Washtenaw	1.93	1.97	Kalkaska	(D)	1.08
Clare	1.99	1.95	Ottawa	0.96	0.96
Crawford	6.77	1.93	Genesee	0.92	0.96
Saginaw	1.56	1.93	Branch	0.93	0.95
Sanilac	1.41	1.88	St. Joseph	0.80	0.89
Emmet	2.16	1.84	Luce	(D)	0.88
Baraga	(D)	1.81	Oakland	1.09	0.83
Presque Isle	4.08	1.72	Midland	0.60	0.56
Ogemaw	1.64	1.70	Keweenaw	(D)	(D)
Ontonagon	1.04	1.70			
Eaton	1.59	1.68	Michigan	2.20	2.33
Iron	3.44	1.66	United States	6.19	5.64

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

NOTE: Earnings of federal employees include earnings of military and civilian personnel.

(D) Witheld to avoid disclosing data for individual companies.

TABLE X-29. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN FEDERAL GOVERNMENT: 1982-1983

County	Percentage change 1973-1983	Percentage change 1982-1983	County	Percentage change 1973-1983	Percentage change 1982-1983
Houghton	101	26	Muskegon	106	6
Iosco	86	14	Branch	95	6
Marquette	90	13	Montcalm	111	6
Lake	88	12	Gladwin	134	6
Emmet	83	11	Cass	86	6
Macomb	119	11	Tuscola	103	6
Oscoda	(D)	10	Presque Isle	-26	6
Leelanau	51	10	Gogebic	120	6
Clinton	178	10	Manistee	51	5
Jackson	82	9	Kalkaska	(D)	5
Genesee	103	9	Wayne	89	5
Huron	101	9	Luce	(D)	5
Eaton	104	9	Lenawee	95	5
Kent	110	9	Van Buren	84	5
Monroe	59	9	Menominee	93	5
Montmorency	(D)	9	Mason	111	5
Kalamazoo	105	8	Gratiot	79	5
Ionia	115	8	St. Clair	99	5
Alcona	62	8	Wexford	143	5
Crawford	-39	8	Antrim	74	5
Grand Traverse	177	8	Oceana	73	4
Newaygo	128	8	Bay	90	4
Ontonagon	40	8	Schoolcraft	55	4
Lapeer	105	8	Alger	127	4
Isabella	114	8	Mackinac	182	4
Arenac	108	8	Otsego	117	4
Ingham	142	8	Cheboygan	225	4
Ogemaw	127	8	Shiawassee	92	3
Ottawa	145	7	Alpena	5	3
Midland	113	7	Calhoun	167	3
Osceola	97	7	Dickinson	118	2
Saginaw	122	7	Roscommon	124	1
Berrien	99	7	Baraga	(D)	1
Oakland	77	7	Benzie	127	-1
St. Joseph	110	7	Washtenaw	149	-2
Missaukee	(D)	7	Charlevoix	144	-2
Allegan	105	6	Delta	146	-2
Hillsdale	87	6	Chippewa	-71	-4
Barry	91	6	Mecosta	81	-12
Clare	108	6	Keweenaw	(D)	(D)
Iron	6	6			
Livingston	132	6	Michigan	96	7
Sanilac	89	6	United States	111	7

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE X-30. RANKING OF MICHIGAN COUNTIES ACCORDING TO LABOR AND PROPRIETORS' EARNINGS IN ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS STATE OR LOCAL GOVERNMENT AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

County	Percentage		County	Percentage	
	1973	1983		1973	1983
Luce	64.83	75.32	Newaygo	13.55	16.88
Mecosta	36.59	45.97	Benzie	15.44	16.69
Keweenaw	23.43	41.60	Menominee	12.61	16.52
Roscommon	28.59	38.27	Charlevoix	13.25	16.11
Lapeer	25.84	37.04	Mason	11.85	15.99
Oscoda	26.22	33.83	Barry	12.36	15.85
Isabella	30.45	32.67	Wexford	12.79	15.41
Lake	18.62	32.34	Sanilac	10.61	15.20
Baraga	23.27	32.21	Clinton	17.92	14.87
Houghton	27.04	31.09	Cheboygan	11.64	14.36
Chippewa	17.18	29.79	Ogemaw	16.92	14.07
Tuscola	18.85	28.84	Lenawee	8.78	14.04
Gogebic	20.51	28.76	Cass	11.20	14.04
Iron	28.00	27.17	Osceola	15.61	13.95
Schoolcraft	23.49	26.48	Delta	13.23	13.56
Branch	21.42	25.93	Kalamazoo	13.65	13.53
Montmorency	18.13	25.64	Jackson	10.70	13.51
Ingham	22.31	25.52	Dickinson	10.96	13.47
Oceana	17.66	24.87	Hillsdale	10.71	13.13
Mackinac	21.50	24.37	Kalkaska	21.02	12.97
Washtenaw	22.56	24.12	Allegan	11.89	12.81
Ontonagon	9.69	23.79	St. Clair	12.23	12.43
Ionia	17.53	22.95	Emmet	10.88	12.10
Crawford	19.52	21.67	Iosco	8.99	11.73
Alcona	22.29	21.49	Bay	10.81	11.49
Marquette	17.28	21.39	Monroe	11.49	11.42
Huron	13.26	21.24	St. Joseph	9.50	11.27
Antrim	13.47	21.21	Gratiot	9.40	11.09
Missaukee	15.90	21.01	Montcalm	11.84	10.74
Clare	19.33	20.74	Muskegon	9.60	10.25
Alpena	16.65	20.30	Wayne	8.79	10.20
Gladwin	17.26	19.64	Berrien	7.91	10.00
Alger	19.49	19.57	Ottawa	9.08	9.50
Livingston	19.83	19.20	Calhoun	7.71	9.45
Shiawassee	12.45	19.10	Macomb	8.42	9.20
Van Buren	13.60	19.08	Genesee	7.90	8.85
Arenac	17.45	17.71	Saginaw	7.23	8.62
Presque Isle	14.79	17.67	Oakland	8.84	7.55
Otsego	16.84	17.46	Kent	7.13	6.93
Eaton	16.26	17.41	Midland	6.82	6.44
Manistee	14.25	17.09			
Grand Traverse	17.67	17.00	Michigan	10.57	12.07
Leelanau	12.24	17.00	United States	11.12	11.33

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

NOTE: Earnings of state and local employees include earnings of military (national guard) and civilian personnel. The latter include faculty and staff of state and local institutions of higher education, public schools, those who staff police and fire departments and other state and local units.

TABLE X-31. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN STATE AND LOCAL GOVERNMENT: 1982-1983

	Percentage change			Percentage change	
County	1973-1983	1982-1983	County	1973-1983	1982-1983
Manistee	157	21	Huron	148	5
Allegan	120	15	Iosco	137	5
Van Buren	145	13	Mecosta	157	5
Crawford	136	11	Genesee	118	5
Charlevoix	150	11	Mackinac	127	5
Gladwin	124	11	Ionia	132	5
Newaygo	145	9	Marquette	151	5
Ottawa	155	9	Cheboygan	136	5
Keweenaw	45	9	Saginaw	114	5
Lapeer	184	8	Shiawassee	161	5
Otsego	170	8	Dickinson	160	4
Menominee	173	8	Alger	83	4
Montmorency	102	8	Branch	129	4
Jackson	111	8	Kalamazoo	130	4
Oscoda	105	8	Schoolcraft	132	4
Sanilac	103	8	Baraga	118	4
Barry	126	8	Gogebic	119	4
Antrim	160	7	Alpena	121	4
Gratiot	98	7	Grand Traverse	164	4
Emmet	139	7	Chippewa	111	3
Mason	144	7	Alcona	66	3
Roscommon	189	7	Berrien	98	3
Cass	122	7	Presque Isle	110	3
Calhoun	112	7	Clare	127	3
Montcalm	112	7	Hillsdale	118	2
Luce	166	7	St. Joseph	124	2
Isabella	152	7	Wayne	74	2
Missaukee	110	7	Lake	132	2
Ogemaw	81	6	Monroe	121	1
Leelanau	131	6	Clinton	80	1
Oceana	155	6	Osceola	68	1
Arenac	91	6	Macomb	100	0
Bay	92	6	Ontonagon	110	0
Lenawee	140	6	Delta	109	0
Tuscola	155	6	Livingston	142	0
Washtenaw	160	6	Muskegon	95	-1
Houghton	147	6	Eaton	107	-1
Benzie	112	6	Kent	121	-2
Midland	119	6	Oakland	99	-2
Wexford	172	6	St. Clair	112	-3
Kalkaska	179	6			
Ingham	163	6	Michigan	112	3
Iron	113	5	United States	136	6

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

XI. OUTDOOR ENVIRONMENT

Michigan's land area is 56,817 square miles, its water area 1,399 square miles. The state's highest elevation, Mount Curwood, in the Porcupine Mountains, is 1,980 feet above sea level. Michigan's lowest elevation of 572 feet is on Lake Erie.

The records of the General Services Administration indicate that the federal government owns or leases around 3,400,000 acres of land in the state. The Michigan Department of Natural Resources and the State Military Board own about 4,400,000 acres.

Land areas of Michigan counties are given in the U.S. Census of Population: 1980. Statistics on gross county areas are available from the Michigan Department of Natural Resources.

Data pertaining to climate at Michigan weather stations are available in Climate of Michigan, by Stations, a publication of the Michigan Weather Service. Separate reports, Local Climatological Data, are available for the stations at Alpena, Detroit, Escanaba, Flint, Grand Rapids, Lansing, Marquette, Muskegon, and Sault Ste. Marie. The Michigan Weather Service also publishes specific reports, such as those on temperature extremes and snowfall.

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TABLE XI-1. STATE PARK USE AND TURNAWAY IN MICHIGAN: 1970-1984

Year	Number of day users[a]	Number of camper days[a]	Total attendance[a]	Number of camp permits	No. of vehicles turned away	
					Camping	Day use
1970	14,384	6,108	20,492	464,541	86,032	42,206
1971	15,419	6,495	21,914	491,807	84,258	52,465
1972	12,941	6,251	19,191	485,616	59,730	27,719
1973	13,606	6,248	19,849	496,812	57,445	25,378
1974	13,358	6,128	19,486	471,313	71,711	31,973
1975	14,768	5,598	20,366	462,123	70,962	46,708
1976	16,132	5,882	22,014	482,787	77,218	35,085
1977	n.a.	n.a.	22,344	480,133	79,107	40,154
1978	n.a.	n.a.	23,656	475,551	66,613	65,708
1979	n.a.	n.a.	21,426	422,371	51,128	38,227
1980	15,598	5,187	20,784	403,450	55,333	47,527
1981	20,812	5,257	20,812	398,404	49,205	29,219
1982	15,342	5,334	20,677	405,402	50,650	26,890
1983	17,729	5,300	23,029	403,562	51,944	40,811
1984	17,030	5,254	22,283	393,073	n.a.	n.a.

SOURCE: Michigan Department of Natural Resources, special release.

a. Figures in thousands.
b. Number of vehicles.
n.a.: not available.

TABLE XI-2. STATE FOREST CAMPGROUND USE: 1970-1984

Year	Number of camps	Number of campers	Camper days	Number of day users[a]
1970	68,623	268,164	995,974	329,934
1971	73,714	284,779	1,083,684	352,796
1972	70,899	268,099	996,409	356,170
1973	79,114	292,746	1,040,361	391,782
1974	77,716	288,243	1,070,023	391,782
1975	82,359	283,232	1,059,659	396,741
1976	88,024	304,784	1,122,527	529,000
1977	90,227	311,539	1,147,905	n.a.
1978	85,806	299,197	1,067,043	529,246
1979	73,143	248,167	748,090	380,530
1980	71,168	242,025	615,126	282,289
1981	76,606	258,573	537,291	243,411
1982	63,831	210,564	395,474	149,019
1983	59,492	201,179	398,080	156,755
1984	54,978	179,324	360,113	183,030

SOURCE: Michigan Department of Natural Resources, special release.

a. estimates.
n.a.: not available.

TABLE X-26. COMBINED SCHEDULE OF GROSS OUTSTANDING INTERIOR DEBT OF LOCAL UNITS OF GOVERNMENT, STATE OF MICHIGAN, FISCAL YEARS 1979-1983

	Outstanding debt as of September 30							
Year	County bonds and notes	City and village bonds	Township bonds	Municipal authority bonds	School district bonds	Community college bonds	Intermediate school district bonds	Total gross interior debt
	(In thousands of dollars)							
1979	2,789,774	2,486,003	279,052	0	2,507,690	321,627	58,318	8,442,104
1980	2,890,484	2,669,160	290.052	0	2,424,963	304,870	52,565	8,632,346
1981	2,977,029	2,750,484	285,643	0	2,290,924	297,270	43,061	8,644,412
1982	3,314,502	2,794,532	282,428	0	2,197,572	277,470	34,295	8,900,800
1983	3,976,503	2,763,428	274,604	0	2,090,775	267,308	27,250	9,399,868

SOURCE: Municipal Finance Division, Department of Treasury, State of Michigan, special release.

TABLE X-27. ISSUES OF BONDS AND NOTES, LOCAL UNITS OF GOVERNMENT, STATE OF MICHIGAN, APPROVED BY THE MUNICIPAL FINANCE DIVISION, CALENDAR YEARS 1979-1983[a]

	Schools		Municipalities		Total	
Year	Number of issues	Amount	Number of issues	Amount	Number of issues	Amount
	(In thousands of dollars)					
1979	277	329,408	323	1,865,058	600	2,194,466
1980	297	351,430	417	1,600,999	714	1,952,429
1981	392	471,187	364	2,292,607	756	2,763,794
1982	455	588,285	352	3,063,288	807	3,651,573
1983[b]	616	619,906	441	4,190,368	1,057	4,810,274

SOURCE: Municipal Finance Division, Department of Treasury, State of Michigan, special release.

a. Table reflects approvals granted in calendar year. Approval issues may or may not have been sold by the unit of local government.

b. Includes Municipal Finance Division approvals of Notice of Intent to Issue an Obligation.

TABLE XI-3. LOCATION, ACREAGE, NUMBER OF CAMPSITES, AND USAGE OF MICHIGAN STATE PARKS: 1982-1984

Name	Post office location	Acreage	Number of campsites	Attendance 1982	Attendance 1983	Attendance 1984
		Upper Peninsula				
Baraga	Baraga US-41	56	137	34,420	33,694	33,957
Bewabic	Crystal Falls US-2	275	144	50,404	51,853	46,746
Brimley	Brimley M-221	151	270	154,242	175,354	155,300
Detour[a]	St. Ignace M-34	403	22	n.a.	n.a.	n.a.
Fayette	Fayette US-2	711	80	98,594	101,770	99,635
Fort Wilkins	Copper Harbor US-41	199	165	179,413	173,641	176,080
Indian Lake	Manistique M-149	567	301	98,522	96,540	92,770
Lake Gogebic	Marenisco M-64	361	165	56,690	57,558	52,885
McLain	Hancock M-203	417	90	163,425	206,024	171,308
Muskallonge Lake	Newberry M-123	217	179	62,912	67,115	61,684
Palms Book	Manistique M-149	388	(b)	58,969	57,921	57,350
Porcupine Mtns	Ontonagon M-107	58,335	183	362,033	359,709	354,155
Straits	St. Ignace I-75	181	318	211,406	219,052	208,946
Tahquamenon Falls	Paradise M-123	35,733	319	496,726	479,148	469,148
Twin Lakes	Winona M-26	175	62	27,314	33,031	33,067
Van Riper	Champion US-41	1,044	226	83,453	84,985	75,147
J.W. Wells	Cedar River M-35	974	162	88,932	103,260	102,659
Subtotal				2,227,455	2,300,655	2,191,404
		Northern Lower Peninsula				
Aloha	Cheboygan M-212	91	287	195,426	191,439	159,453
Bay City	Bay City M-247	196	263	256,123	360,889	374,326
Burt Lake	Indian River I-75	405	375	175,155	187,918	166,967
Cheboygan	Cheboygan US-23	932	78	49,003	58,620	58,694

TABLE XI-4. VISITOR DAYS OF USE OF NATIONAL FORESTS LOCATED IN MICHIGAN AND THE UNITED STATES: 1970-1984

(In thousands of visitor days)

	Michigan				United States total
Year	Huron-Manistee	Hiawatha	Ottawa	Total	
1970	1,664.0	1,587.6	991.2	4,242.8	172,554.5
1971	1,770.8	1,739.8	1,064.0	4,574.6	178,109.5
1972	1,901.3	1,704.1	1,117.0	4,722.4	183,958.3
1973	1,842.1	1,854.9	1,187.8	4,884.8	188,174.6
1974	1,955.6	1,821.9	1,240.5	5,018.0	192,915.8
1975	1,940.0	2,002.7	1,208.4	5,151.1	199,200.8
1976	2,154.8	2,030.3	1,289.6	5,474.7	199,928.1
1977	2,378.0	1,833.6	1,334.1	5,545.7	204,797.4
1978	2,390.2	1,749.2	1,363.4	5,502.8	218,496.3
1979	2,183.8	1,571.6	1,260.3	5,015.7	236,301.7
1980	2,652.7	1,683.3	1,150.8	5,486.8	233,549.3
1981	2,183.8	1,571.6	1,260.3	5,015.7	235,709.2
1982	2,853.0	1,675.0	1,124.0	5,626.7	233,438.0
1983	2,720.0	1,602.0	1,075.0	5,384.3	227,708.0
1984	1,994.6	1,527.5	1,130.4	4,652.5	227,553.9

SOURCE: U.S. Forest Service, special release.

TABLE XI-5. VISITORS TO ISLE ROYALE NATIONAL PARK AND TO PICTURED ROCKS AND SLEEPING BEAR DUNES NATIONAL LAKESHORES: 1970-1984

Year	Isle Royale	Pictured Rocks[a]	Sleeping Bear Dunes[b]
1970	14,411	--	--
1971	15,868	--	--
1972	16,116	287,094[c]	--
1973	15,439	296,537	--
1974	13,934	298,856	--
1975	16,818	279,262	775,000
1976	16,000	317,000	800,000
1977	16,676	297,189	837,976
1978	16,415	289,902	759,000
1979	14,810	272,416	733,463
1980	14,996	313,040	689,274
1981	14,564	331,815	759,014
1982	13,250	359,671	664,945
1983	12,296	443,286	685,208
1984	11,608	409,712	853,186

SOURCE: Isle Royale National Park, Pictured Rocks National Lakeshore, and Sleeping Bear Dunes National Lakeshore, special releases.

a. Records not available prior to 1972.
b. Records not available prior to 1975.
c. Eleven-month total, beginning with February.

TABLE XI-6. NUMBER OF RESIDENT AND NONRESIDENT HUNTING LICENSES ISSUED IN MICHIGAN: 1970-1984

	Small game		Deer-firearm		Deer-bow	
Year	Resident[a]	Nonresident	Resident[a]	Nonresident	Resident[a]	Nonresident
1970	581,855	6,202	616,173	12,729	58,234	3,584
1971	465,201	5,683	492,024	10,189	35,514	2,985
1972	445,589	6,396	455,304	9,108	30,400	2,576
1973	515,101	7,803	494,567	10,169	38,287	2,735
1974	564,476	8,609	551,928	11,820	46,269	2,851
1975	558,520	8,866	587,091	13,710	54,391	3,582
1976	503,165	7,601	535,550	13,781	57,184	4,287
1977	421,700	7,847	482,002	14,990	62,013	5,464
1978	353,073	7,059	522,520	16,388	--	6,793
1979	318,799	6,900	519,505	16,030	--	7,300
1980	378,365	5,571	651,333	10,597	152,521	4,039
1981	365,951	5,839	668,146	10,714	168,556	4,401
1982	335,895	5,795	649,018	10,339	177,620	4,903
1983	302,632	5,288	612,192	10,250	173,335	4,163
1984	297,685	5,333	614,738	9,976	172,305	4,434

SOURCE: Michigan Department of Natural Resources, special release.

[a] Includes senior resident.

TABLE XI-7. NUMBER OF RESIDENT AND NONRESIDENT FISHING LICENSES ISSUED IN MICHIGAN: 1970-1984

	Resident		Nonresident		
Year	Senior	Annual[a]	7-day	Annual	Trout stamp[b]
1970	92,932	807,703	50,121	133,196	303,774
1971	97,169	837,462	53,164	137,460	312,432
1972	99,540	811,393	34,977	127,218	308,630
1973	103,805	832,539	35,175	131,671	311,565
1974	91,938	871,557	33,832	131,516	324,865
1975	95,206	916,571	36,907	137,919	352,207
1976	95,331	817,088	--	106,028	278,130
1977	94,659	770,299	--	99,971	253,235
1978	95,469	738,324	--	94,089	239,601
1979	94,069	718,779	--	91,278	271,618
1980	98,943	712,813	--	114,522	236,386
1981	125,333	865,394	--	72,078	354,703
1982	127,551	870,664	--	73,909	365,954
1983	127,375	842,481	--	72,964	365,669
1984	127,788	848,274	--	73,739	384,976

SOURCE: Michigan Department of Natural Resources, special release.

[a] Includes 7-day licenses issued during 1968-1972.

[b] Resident and nonresident.

TABLE XI-8. NUMBER OF REPORTED FOREST FIRES IN MICHIGAN AND ACREAGE BURNED AS A RESULT: 1970-1984

Year	Lightning	Campfire	Tobacco smoking	Debris burning	Incendiary	Equipment use	All other	Total
				Number of fires				
1970	39	64	203	461	152	239	237	1,395
1971	25	79	212	347	91	293	163	1,210
1972	17	66	166	324	77	223	187	1,060
1973	7	47	142	295	83	139	119	832
1974	20	45	176	343	109	196	140	1,029
1975	40	77	204	225	79	42	186	853
1976	99	159	258	296	131	103	295	1,341
1977	72	122	223	329	169	155	363	1,433
1978	8	68	120	160	95	47	223	721
1979	7	44	67	113	73	52	116	472
1980	16	65	96	303	116	88	159	843
1981	14	64	108	224	132	87	195	824
1982	11	36	52	178	52	44	113	486
1983	38	38	60	147	72	60	132	547
1984	18	34	51	227	85	71	127	613
				Acres burned				
1970	56	255	741	2,844	581	947	1,069	6,492
1971	60	449	1,344	1,630	831	993	287	5,597
1972	24	630	1,151	1,628	553	804	864	5,654
1973	7	160	615	1,069	322	241	250	2,664
1974	80	195	1,566	2,176	999	608	464	6,087
1975	143	342	1,041	1,467	4,788	275	8,715	16,775
1976	19,264	645	1,626	1,122	923	505	1,385	25,470
1977	805	710	1,396	3,911	1,563	2,074	1,650	12,109
1978	17	207	513	420	420	159	795	2,639
1979	15	113	152	410	1,049	391	169	2,299
1980	68	353	1,211	1,733	1,410	1,347	3,157	9,279
1981	102	258	404	2,821	2,620	410	1,892	7,607
1982	151	672	231	816	581	362	1,187	3,989
1983	177	75	342	824	1,351	397	1,209	4,375
1984	29	87	180	1,495	800	436	1,033	4,070

SOURCE: Michigan Department of Natural Resources, Forest Management Division, special release.

TABLE XI-9. LAND AREA AND INLAND WATER AREA OF MICHIGAN COUNTIES: AS OF 1981

(In square miles)

County	Land	Water	County	Land	Water
Alcona	679.01	16.50	Lake	567.77	6.20
Alger	911.66	36.60	Lapeer	658.04	4.40
Allegan	832.05	11.20	Leelanau	341.39	25.00
Alpena	567.49	34.10	Lenawee	752.54	8.95
Antrim	480.17	44.50	Livingston	574.33	11.00
Arenac	367.40	4.41	Luce	904.46	22.60
Baraga	900.80	27.96	Mackinac	1,025.49	66.60
Barry	560.09	16.80	Macomb	482.42	.30
Bay	447.30	7.45	Manistee	542.86	15.00
Benzie	322.23	26.50	Marquette	1,821.42	51.88
Berrien	576.10	4.30	Mason	494.48	16.41
Branch	508.03	11.10	Mecosta	560.21	10.00
Calhoun	711.50	6.90	Menominee	1,045.28	6.10
Cass	496.22	14.40	Midland	525.04	3.10
Charlevoix	420.99	36.80	Missaukee	564.86	7.50
Cheboygan	720.19	77.30	Monroe	556.69	6.90
Chippewa	1,590.20	184.77	Montcalm	712.58	7.60
Clare	570.03	6.10	Montmorency	550.03	12.10
Clinton	573.07	1.64	Muskegon	507.04	19.67
Crawford	558.84	4.60	Newaygo	846.79	15.33
Delta	1,173.25	25.50	Oakland	874.88	32.50
Dickinson	770.27	7.15	Oceana	540.88	5.07
Eaton	579.29	.90	Ogemaw	569.60	5.50
Emmet	467.87	16.50	Ontonagon	1,310.83	15.30
Genesee	641.55	8.02	Osceola	568.70	4.00
Gladwin	505.34	10.66	Oscoda	568.00	3.61
Gogebic	1,105.15	39.00	Otsego	515.64	10.53
Grand Traverse	466.21	27.80	Ottawa	567.09	8.70
Gratiot	570.44	1.09	Presque Isle	655.57	32.70
Hillsdale	602.91	3.60	Roscommon	528.08	52.00
Houghton	1,013.60	30.00	Saginaw	815.28	.40
Huron	829.76	22.20	St. Clair	734.27	17.30
Ingham	559.71	1.10	St. Joseph	502.54	15.47
Ionia	577.03	3.30	Sanilac	964.40	.00
Iosco	545.97	19.40	Schoolcraft	1,173.39	47.70
Iron	1,163.08	48.00	Shiawassee	540.36	.30
Isabella	576.59	1.30	Tuscola	812.08	5.10
Jackson	704.68	18.80	Van Buren	611.40	12.50
Kalamazoo	561.97	18.30	Washtenaw	710.25	12.50
Kalkaska	562.96	7.40	Wayne	615.10	20.00
Kent	861.77	10.90	Wexford	565.65	10.80
Keweenaw	543.48	49.30	MICHIGAN	56,953.96	1,573.27

SOURCE: U.S. Bureau of the Census, special release.

XII. AGRICULTURE

Michigan Agricultural Statistics is an annual publication of the Michigan Department of Agriculture. Many of the data in this chapter are statistics that appeared in the latest edition.

The Agricultural Experiment Station and the Extension Service at Michigan State University also are sources of information. A list of the research reports issued by the Agricultural Experiment Station is available on request.

Income and employment statistics on agriculture in Michigan counties are prepared annually by the Bureau of Economic Analysis, U.S. Department of Commerce. These are the most comprehensive accounts of agricultural activity for individual counties. They form the basis for the evaluation of agriculture's importance in Table XII-21.

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TABLE XI-3. LOCATION, ACREAGE, NUMBER OF CAMPSITES, AND USAGE OF MICHIGAN STATE PARKS: 1982-1984 (cont.)

Name	Post office location	Acreage	Number of campsites	Attendance 1982	Attendance 1983	Attendance 1984
			Northern Lower Peninsula (cont.)			
Clear Lake	Atlanta M-33	290	200	61,959	62,961	62,345
Fisherman's Island	n.a.	2,678	90	71,532	67,976	64,779
Gladwin[d]	Gladwin M-18	381	45	39,890	120	0
Harrisville	Harrisville US-23	94	229	117,255	122,326	114,230
Hartwick Pines	Grayling M-93	9,238	62	190,331	174,729	201,540
Hoeft	Rogers City US-23	301	144	48,008	51,422	49,055
Interlochen	Interlochen M-137	187	550	296,489	306,206	284,274
Leelanau[a]	Glen Arbor Co. Rd. 201	1,253	50	86,087	74,822	70,254
Ludington	Ludington M-116	4,514	398	762,607	836,785	828,521
Mears	Pentwater US-31	50	179	320,578	340,316	334,826
Mitchell	Cadillac M-115	32	270	246,984	366,074	368,671
Newaygo	Newaygo M-37	257	99	20,486	28,265	30,628
North Higgins Lake	Roscommon M-18, M-76	429	218	225,182	232,229	251,222
Onaway	Onaway M-211	158	101	46,402	47,846	44,468
Orchard Beach	Manistee M-110	201	175	95,419	95,672	102,176
Otsego Lake	Gaylord I-75	62	203	205,628	187,692	161,203
Petoskey	Petoskey US-31	305	90	191,148	229,585	234,615
Pinconning[e]	Pinconning M-13	201	(c)	68,504	3,277	0
Rifle River	Lupton M-33	4,329	181	110,820	110,727	115,043
Silver Lake	Mears US-31	2,675	249	619,085	684,444	706,613
South Higgins Lake	Roscommon US-27	305	512	332,019	397,324	344,887
Tawas Point	E. Tawas US-23	175	210	259,939	269,842	255,640
Traverse City	Traverse City US-31	45	343	256,598	263,331	274,935
White Cloud[f]	White Cloud M-20	89	80	24,142	160	0
Wilderness	Carp Lake US-31	7,514	210	145,589	143,966	146,752

TABLE XI-3. LOCATION, ACREAGE, NUMBER OF CAMPSITES, AND USAGE OF MICHIGAN STATE PARKS: 1982-1984 (cont.)

Name	Post office location	Acreage	Number of campsites	Attendance 1982	Attendance 1983	Attendance 1984
	Northern Lower Peninsula (cont.)					
Wilson	Harrison I-75	36	160	101,345	117,163	90,522
Young	Boyne City M-75	563	293	139,368	151,547	141,141
Subtotal and average increase				5,759,101	6,165,673	6,037,780
	Southern Lower Peninsula					
Algonac	Algonac M-29	1,023	281	276,982	266,652	306,391
Bald Mountain	Lake Orion M-24	4,637	n.a.	423,039	424,767	407,041
Brighton	Howell I-96	4,913	222	228,665	251,733	238,319
Dodge #4	Pontiac M-59	139	(b)	442,544	564,189	464,289
Duck Lake[a]	Muskegon	704	n.a.	74,819	100,588	94,925
Fort Custer	Augusta I-94	2,962	112	146,433	228,840	232,369
Grand Haven	Grand Haven US-31	48	170	696,205	853,918	829,098
W. J. Hayes	Onsted US-12	654	210	553,180	721,326	581,479
Highland	Milford M-59	5,524	39	337,172	343,950	349,840
Hoffmaster	Muskegon US-31	1,043	333	416,455	480,260	447,840
Holland	Holland US-31	142	368	1,547,513	1,768,719	1,618,920
Holly	Holly I-75	7,470	160	697,218	828,691	728,683
Ionia	Saranac M-66	2,998	n.a.	68,192	42,659	26,798
Island Lake	Brighton I-96	3,466	25	354,970	528,222	487,712
Lake Hudson	Clayton M-156	2,650	(b)	27,351	76,197	105,185
Lakeport	Port Huron US-23	565	300	216,003	256,578	236,132
Maybury	Northville	944	n.a.	164,728	152,339	198,349
Metamora-Hadley	Metamora M-24	683	220	168,257	174,892	168,000
Muskegon	North Muskegon M-213	1,125	348	363,698	421,210	422,720
Ortonville	Ortonville M-75	3,205	32	107,493	123,105	111,695

TABLE XI-3. LOCATION, ACREAGE, NUMBER OF CAMPSITES, AND USAGE OF MICHIGAN STATE PARKS: 1982-1984 (cont.)

Name	Post office location	Acreage	Number of campsites	Attendance 1982	Attendance 1983	Attendance 1984
			Southern Lower Penisula (cont.)			
Pinckney	Pinckney M-36	9,994	255	397,837	622,788	521,425
Pontiac Lake	Pontiac M-59	3,700	174	180,554	261,563	252,941
Port Crescent	Port Austin M-25	655	181	140,763	164,976	174,871
Proud Lake	Milford I-96	3,614	110	287,157	319,648	319,907
Rochester-Utica	Utica M-59	1,334	n.a.	355,020	404,650	454,269
Sanilac[a]	Port Austin US-25	112	19	n.a.	n.a.	n.a.
Saugatuck	Saugatuck	866	(b)	39,280	36,098	30,910
Seven Lakes	Fenton US-23, I-75	1,378	(b)	98,874	144,590	116,381
Sleeper	Caseville M-25	1,003	280	215,686	216,785	238,669
Sleepy Hollow	Lansing US-27	2,678	20	217,901	174,030	218,045
Sterling	Monroe I-75	1,000	288	727,874	803,493	826,097
Van Buren	South Haven I-196	326	205	272,629	249,999	310,658
Warren Dunes	Sawyer I-94	1,507	197	1,231,041	1,319,911	1,315,527
Waterloo	Chelsea I-94	18,027	434	583,078	567,295	549,689
Yankee Springs	Middleville M-37	5,004	345	631,436	668,287	669,023
Subtotal				12,690,047	14,562,948	14,054,197
Grand Total				29,676,603	23,029,276	22,283,381

SOURCE: Michigan Department of Natural Resources, special release.

a. Detour is administrated by Straits; Palms Book by Indian Lake; Leelanau by Traverse City; Duck Lake by Muskegon; and Sanilac by Port Crescent.

b. No camping permitted.

c. Under development.

d. Now administered by the City of Gladwin.

e. Now administered by the Waterways Division of the Department of Natural Resources.

f. Now administered by the City of White Cloud.

n.a.: not available.

TABLE XII-1. GROSS FARM INCOME, PRODUCTION EXPENSES, AND REALIZED NET INCOME IN MICHIGAN AND U.S. AGRICULTURE: 1950-1982

Year	Total ($000,000)			Per farm ($)		
	Gross income	Production expenses	Net farm income[c]	Gross income[d]	Production expenses	Net farm income[c]
			Michigan			
1950-1954[a]	833	508	325	5,507	3,342	2,165
1955-1959[a]	835	571	244	6,365	4,478	1,887
1960-1964[a]	919	663	256	8,386	6,053	2,333
1965-1969[a]	1,033	754	279	11,265	8,235	3,030
1970-1974[a]	1,411	1,028	383	17,396	12,661	4,735
1976	1,950	1,593	321	25,994	21,241	4,284
1977[b]	2,251	1,747	466	33,101	25,609	6,851
1978	2,414	1,965	466	36,577	29,033	7,061
1979	2,687	2,264	520	40,705	33,718	7,876
1980	3,149	2,643	469	47,714	n.a.	7,103
1981	3,259	2,865	560	49,393	n.a.	8,489
1982	3,374	2,954	449	51,915	n.a.	6,900
			United States			
1950-1954[a]	34,996	21,574	13,422	6,739	4,159	2,683
1955-1959[a]	35,571	24,309	11,262	8,168	5,538	2,637
1960-1964[a]	41,258	29,931	11,327	11,193	8,126	3,126
1965-1969[a]	50,791	37,996	12,795	16,073	12,044	4,162
1970-1974[a]	76,949	56,376	20,574	26,971	19,768	7,506
1975	96,938	75,863	24,475	35,037	27,420	8,846
1976	104,177	83,130	18,682	38,051	30,364	6,823
1977[b]	107,713	90,293	18,391	43,843	36,767	7,563
1978	126,972	101,087	26,458	51,876	41,493	11,351
1979	146,570	119,217	32,697	59,842	49,062	13,272
1980	n.a.	n.a.	n.a.	64,041	n.a.	8,857
1981	n.a.	n.a.	n.a.	65,498	n.a.	12,349
1982	n.a.	n.a.	n.a.	68,329	n.a.	9,188

SOURCE: K.T. Wright and Daniel A. Dueweke, *The Changing Scene in Michigan Agriculture*, Extension Bulletin E-1253 (East Lansing: Cooperative Extension Service, Michigan State University, 1978), Table 7; *Farm Income Statistics* (Washington, D.C.: Economics, Statistics, and Cooperatives Service, U.S. Department of Agriculture, 1978), Tables 1H and 3H; and Michigan Agricultural Reporting Service, *Michigan Agricultural Statistics*.

a. Five-year average.
b. Beginning with 1977, based on the 1974 Census of Agriculture definition of a farm with sales of $1,000 or more.
c. Includes changes in inventories.
d. Excludes changes in inventories and represents income of farm operators.
n.a.: not available

TABLE XII-6. PRICES RECEIVED BY MICHIGAN FARMERS FOR CROPS, LIVESTOCK, POULTRY, AND PRODUCTS: 1979-1983 MARKETING YEARS

Item	1979	1980	1981	1982	1983^{p}
Hogs ($ per cwt)	42.90	38.80	43.70	52.50	47.00
Beef cattle ($ per cwt)	58.20	55.90	49.50	48.00	47.20
Cows ($ per cwt)	50.50	47.40	41.30	39.30	39.10
Steers and heifers ($ per cwt)	65.60	62.90	56.20	55.80	54.30
Milk cows ($ per head)	1,080.00	1,230.00	1,280.00	1,150.00	1,070.00
Calves ($ per cwt)	81.60	82.50	65.20	57.20	57.00
Eggs (¢ per dozen)	.50	.48	.54	.51	.52
All wholesale milk ($ per cwt)	12.00	13.20	13.80	13.60	13.60
Corn (per bushel)	2.46	3.05	2.39	2.55	3.35
Wheat (per bushel)	3.82	3.60	3.47	3.33	3.35
Oats (per bushel)	1.45	1.85	1.97	1.49	1.90
Soybeans (per bushel)	6.13	7.47	6.02	5.46	8.25
Dry beans (per cwt)	18.50	26.40	25.60	13.70	24.10
Navy beans (per cwt)	18.50	28.50	25.90	13.70	22.50
Potatoes (per cwt)	4.44	6.65	6.30	4.65	6.15
All hay (per ton)	36.00	36.50	56.50	54.50	59.50

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1984).

p: Preliminary

TABLE XII-7. ACREAGE, YIELD, PRODUCTION, AND VALUE OF MICHIGAN FIELD CROPS: 1979-1983

Crop	Year	Acreage		Production		Price received per unit[a] (dollars)	Value of production ($1,000)
		Planted (1,000)	Harvested (1,000)	Per acre (1,000)	Total (1,000)		
Corn, all (bu)	1979	2,900	n.a.	n.a.	n.a.	n.a.	n.a.
	1980	2,950	n.a.	n.a.	n.a.	n.a.	n.a.
	1981	3,200	n.a.	n.a.	n.a.	n.a.	n.a.
	1982	3,150	n.a.	n.a.	n.a.	n.a.	n.a.
	1983	2,200	n.a.	n.a.	n.a.	n.a.	n.a.
Corn, grain (bu)	1979	n.a.	2,500	95	237,500	2.46	584,250
	1980	n.a.	2,560	95	243,200	3.05	741,760
	1981	n.a.	2,800	96	268,800	2.39	642,432
	1982	n.a.	2,740	107	193,180	2.55	747,609
	1983	n.a.	1,800	92	165,600	3.35	554,760
Corn, silage	1979	n.a.	370	13.5	4,995	16.20	80,919
	1980	n.a.	365	13.5	4,388	19.20	84,250
	1981	n.a.	370	13.0	4,160	19.80	82,368
	1982	n.a.	390	13.5	4,185	19.40	81,189
	1983	n.a.	380	13.0	4,940	24.50	121,030
Wheat, winter (bu)	1979	750	735	43.0	31,605	3.82	120,731
	1980	820	800	44.0	35,200	3.60	126,720
	1981	840	830	50.0	41,500	3.47	144,005
	1982	650	560	41.0	22,960	3.33	76,457
	1983	830	730	49	35,770	3.35	119,830
Oats (bu)	1979	330	310	61.0	18,910	1.45	27,420
	1980	355	335	60.0	20,100	1.85	37,185
	1981	360	340	62.0	21,080	1.97	41,528
	1982	475	450	63.0	28,350	1.49	42,242
	1983	450	300	52.0	15,600	1.90	29,640
Barley (bu)	1979	21	20	47.0	940	2.65	2,491
	1980	23	21	53.0	1,113	3.75	4,174
	1981	27	26	54.0	1,404	2.98	4,184
	1982	38	36	59.0	2,124	2.39	5,076
	1983	35	33	49.0	1,617	2.80	4,528
Rye (bu)	1979	135	25	25.0	625	2.00	1,719
	1980	130	21	24.0	504	2.00	1,436
	1981	130	16	28.0	448	2.00	1,299
	1982	135	18	29.0	522	3.00	1,566
	1983	135	20	30.0	600	2.05	1,230
Soybeans (bu)	1979	1,020	1,010	30.0	30,300	6.13	185,739
	1980	980	970	33.0	32,010	7.47	239,115
	1981	1,050	1,040	30.0	31,200	6.02	187,824
	1982	1,150	1,140	31.0	35,340	5.46	192,956
	1983	1,050	1,040	32.00	33,280	8.25	274,560
Dry beans[b]	1979	470	460	1,400	6,440	18.50	119,140
	1980	590	570	1,360	7,752	26.40	204,653
	1981	650	590	1,220	7,198	25.60	184,269
	1982	560	550	1,450	7,975	13.70	109,258
	1983	360	350	1,300	4,550	24.10	109,655

TABLE XII-2. ACREAGE AND PRODUCTION OF MAJOR MICHIGAN CROPS: 1950-1983

Crop	1950-1954[a]	1955-1959[a]	1960-1964[a]	1965-1969[a]	1970-1974[a]	1979	1980	1981	1982	1983
					Harvested acreage (Thousands of acres)					
All corn	1,729	1,913	1,895	1,734	2,063	2,870	2,925	3,170	3,130	2,180
Winter wheat	1,269	1,037	1,019	839	604	735	800	830	560	730
Oats	1,331	1,056	745	519	376	310	335	340	450	300
Tame hay	2,383	2,026	1,791	1,549	1,320	1,330	1,310	1,270	1,370	1,400
Soybeans	121	221	300	481	569	1,010	950	1,040	1,140	1,040
Dry beans[b]	382	504	567	600	577	460	570	590	550	350
Sugar beets	62	68	74	80	85	88	97	99	97	104
Potatoes	67	50	45	44	42	41	43	45	49	53
Vegetables	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	55	56	63	63
Fruit	167	160	152	152	157	105	104	102	100	105
					Production (Thousands of units)					
All corn (bu)[c]	62,227	82,662	92,302	93,193	124,393	237,500	243,200	268,800	193,180	165,600
Winter wheat (bu)	35,142	33,000	36,365	30,849	23,084	31,605	35,200	41,500	22,960	35,770
Oats (bu)	48,049	50,820	37,215	27,392	19,988	18,910	20,100	21,080	28,350	15,600
Tame hay (tons)	3,631	3,329	3,356	3,330	3,065	3,937	4,048	4,094	4,347	4,470
Soybeans (bu)	2,334	4,990	6,783	10,904	13,397	30,300	32,101	31,200	35,340	33,280
Dry beans (cwt)	3,571	5,014	7,437	6,775	6,231	6,440	7,752	7,198	7,975	4,550
Sugar beets (tons)	699	980	1,153	1,355	1,571	1,550	1,892	2,030	1,853	1,976
Potatoes (cwt)[d]	12,468	11,734	13,708	14,678	16,089	9,548	10,020	10,535	12,796	12,023
Fruit (000 lb)	n.a.	n.a.	n.a.	n.a.	n.a.	1,032	1,291	985	1,437	1,070
Vegetables (000 cwt)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	8,301	9,774	12,178	11,329

SOURCE: K.T. Wright and Daniel A. Dueweke, The Changing Scene in Michigan Agriculture, Extension Bulletin E-1253 (East Lansing: Cooperative Extension Service, Michigan State University, 1978), Tables 1 and 2; and Michigan Agricultural Reporting Service, Michigan Agricultural Statistics (Lansing, 1984).

a. Five-year average.

b. Production per acre in pounds

c. Grain only, excludes silage.

d. Measured in bushels prior to 1978.

TABLE XII-3. MAJOR LIVESTOCK INVENTORY AND PRODUCTION OF MAJOR LIVESTOCK PRODUCTS IN MICHIGAN: 1950-1974 AND 1980-1984

Livestock or product	1950-1954[a]	1955-1959[a]	1960-1964[a]	1965-1969[a]	1970-1974[a]	1980	1981	1982	1983	1984
				Inventory, 1 January (thousands)						
All cattle & calves										
Milk cows	930	831	698	568	435	400	390	396	400	402
Beef cows	63	97	119	141	192	140	140	214	215	158
Cattle on feed	100	104	148	185	226	165	160	135	n.a.	n.a.
Total	1,880	1,797	1,759	1,587	1,552	1,310	1,340	1,450	1,500	1,475
Hogs & pigs	812	739	809	652	756	1,040	830	690	800	1,250
Sheep & lambs	432	410	365	290	278	132	124	130	100	110
Chickens (all)	10,986	9,930	7,961	8,466	8,126	8,000	8,200	8,100	7,800	7,550
Turkeys (hens)	82	67	82	86	76	44	52	50	45	38
				Production (millions of pounds)						
Milk	5,409	5,272	5,485	4,897	4,670	4,970	5,103	5,253	5,528	n.a.
Cattle & calves	443	431	460	473	476	393	432	473	450	n.a.
Hogs	289	261	260	220	264	331	288	272	364	n.a.
Sheep & lambs	21	22	21	15	11	9	8	6	8	n.a.
Eggs (millions produced)	1,609	1,626	1,410	1,540	1,486	1,459	1,541	1,525	1,454	n.a.
Chickens (1,000 head raised)	16,623	11,014	6,067	5,638	5,800	5,250	5,650	5,100	5,100	n.a.
Turkeys (1,000 head raised)	1,049	1,162	1,241	1,158	1,040	1,450	1,550	1,400	1,600	n.a.
Commercial broilers (1,000 head raised)	3,485	4,350	2,732	1,200	697	1,552	1,130	1,180	1,130	n.a.

SOURCE: K.T. Wright and Daniel A. Dueweke, *The Changing Scene in Michigan Agriculture*, Extension Bulletin E-1253 (East Lansing: Cooperative Extension Service, Michigan State University, 1978), Tables 3 and 4; and Michigan Agricultural Reporting Service, *Michigan Agricultural Statistics* (Lansing, 1984).

a. Five-year average.

n.a.: not available.

TABLE XII-4. MICHIGAN CASH RECEIPTS FROM FARM MARKETINGS: 1975-1982

(In thousands of dollars)

Item	1975	1976	1977	1978	1979	1980	1981	1982
Livestock and products	732,935	812,249	831,355	984,560	1,003,800	1,137,485	1,111,895	1,175,038
Dairy	376,312	447,786	452,265	496,661	571,725	647,491	693,961	703,906
Cattle and calves	175,714	168,812	197,986	306,803	208,565	257,567	183,207	234,484
Hogs	101,511	102,205	91,094	87,278	124,490	135,678	129,020	136,111
Eggs	55,556	67,312	61,898	57,811	61,336	57,760	68,760	64,175
Sheep and lambs	3,376	2,874	3,889	5,320	4,116	5,439	3,332	3,851
All chickens	3,784	3,272	2,932	3,871	5,438	3,640	3,366	3,041
Wool	322	549	744	697	682	703	662	381
Other	16,360	19,439	20,547	26,119	27,448	29,207	29,677	29,089
Crops	914,769	908,828	1,119,141	1,071,697	1,317,666	1,611,153	1,676,031	1,687,582
Field crops								
Corn	219,156	262,828	286,968	248,791	318,719	511,355	446,119	531,671
Dry edible beans	129,744	78,857	111,802	80,783	111,234	149,250	221,321	120,125
Soybeans	63,726	79,251	134,660	97,133	194,586	227,372	166,402	232,759
Sugarbeets	43,524	34,496	36,100	41,595	60,295	77,004	53,795	77,004
Wheat	113,701	81,360	82,324	50,355	102,468	121,899	136,013	67,159
Potatoes	34,142	36,975	40,961	37,269	38,256	52,606	42,984	44,750
Hay	30,154	24,849	26,160	32,403	23,267	20,210	29,948	40,222
Oats	16,644	18,800	16,247	15,204	16,635	22,011	27,765	23,253
Mint	1,281	1,186	1,304	1,310	1,475	1,498	1,829	1,788
Red clover seed	765	1,882	1,041	813	745	580	561	b
Rye	515	476	418	681	984	866	868	1,047
Barley	1,053	1,790	1,740	1,492	1,315	1,332	1,788	2,462
Vegetables[a]	84,329	95,501	111,991	128,437	118,911	123,228	151,184	155,130
Mushrooms	n.a.	n.a.	n.a.	8,742	9,060	13,409	16,319	13,446
Other	8,641	12,146	17,794	8,826	11,381	10,494	9,913	12,911

TABLE XII-4. MICHIGAN CASH RECEIPTS FROM FARM MARKETINGS: 1975-1982 (cont.)

(In thousands of dollars)

Item	1975	1976	1977	1978	1979	1980	1981	1982
Fruit								
Apples	36,055	39,009	52,914	73,192	75,204	48,174	75,031	56,813
Blueberries[c]	10,880	15,450	8,378	17,820	16,164	16,400	26,572	d
Cherries	25,455	27,831	57,901	73,370	59,359	40,593	84,754	37,546
Grapes	7,170	2,179	7,072	15,000	13,810	11,825	13,296	15,089
Peaches	7,290	5,584	8,502	9,504	6,693	7,584	6,624	10,346
Strawberries	5,297	5,798	6,280	7,973	10,041	7,001	8,800	11,476
Pears	2,023	1,512	1,673	2,930	1,703	2,141	1,923	2,334
Plums and prunes	2,353	2,105	1,953	3,279	2,848	2,550	2,207	2,809
Other	688	15,805	8,872	777	971	1,030	1,108	24,442[e]
Other products								
Forest and maple	8,927	12,002	12,657	14,768	16,475	31,334	38,652	38,000[f]
Greenhouse, nursery	61,276	66,606	91,807	99,250	105,067	109,767	110,200	165,000
All commodities	1,657,704	1,721,077	1,950,496	2,056,257	2,321,466	2,748,638	2,787,926	2,862,620
Government payments	13,276	7,300	21,195	45,510	15,593	10,666	17,263	40,417
TOTAL	1,660,980	1,728,377	1,971,691	2,101,767	2,377,059	2,759,304	2,805,189	2,903,037

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics, 1977 through 1984 (Lansing: annually), and special release (1979 selected updated data).

a. Prior to 1979, mushrooms included in other crops.
b. Included in other crops.
c. Prior to 1975, blueberries included in other.
d. Included in other fruit.
e. Includes blueberries in 1982.
f. Forest products only. Maple products now included in other crops.

TABLE XII-5. MICHIGAN INDEXES OF PRICES RECEIVED BY FARMERS, U.S. PRICES PAID BY FARMERS, AND RATIO:[a] 1910-1983

Item	1910-1914	1935-1939	1947-1949	1970	1979	1980	1981	1982	1983
Livestock									
All livestock	19	23	55	65	137	138	138	138	135
Dairy products	16	19	45	60	136	143	143	141	141
Meat animals	17	21	57	70	135	142	135	142	132
Poultry and eggs	49	55	113	73	102	120	109	99	108
Crops									
All crops	22	21	55	51	113	126	132	118	119
Cash field	25	25	65	51	114	131	160	127	127
Fruits	17	17	41	44	125	134	107	109	86
Vegetables	--	13	34	56	92	104	137	121	83
Feed crops	39	31	73	56	110	122	121	115	129

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1984).

NOTE: Indexes are calculated using 1977 as the base year.

a. Ratio of Michigan index of prices received for all farm products to U.S. index of prices paid for commodities, services, interest, taxes, and wage rates.

TABLE XII-7. ACREAGE, YIELD, PRODUCTION, AND VALUE OF MICHIGAN FIELD CROPS: 1979-1983 (cont.)

		Acreage		Production		Price received per unit[a]	Value of production
Crop	Year	Planted (1,000)	Harvested (1,000)	Per acre (1,000)	Total (1,000)	(dollars)	($1,000)
Potatoes[b], all	1979	41.9	40.6	235	9,548	4.44	42,393
	1980	44.5	43.3	231	10,020	6.65	66,633
	1981	47.0	44.8	235	10,535	6.30	66,371
	1982	51.5	49.3	260	12,796	4.65	59,501
	1983	55.0	52.8	228	12,023	6.15	73,941
Potatoes summer (cwt)	1979	8.9	8.6	180	1,548	4.40	6,811
	1980	9.5	9.3	200	1,860	6.75	12,555
	1981	10.0	9.8	200	1,960	7.05	13,818
	1982	10.5	10.3	220	2,266	4.45	10,084
	1983	12.0	11.8	185	2,183	n.a.	n.a.
Potatoes fall (cwt)	1979	33.0	32.0	250	8,000	4.45	35,600
	1980	35.0	34.0	240	8,160	6.60	53,856
	1981	37.0	35.0	245	8,575	6.15	52,736
	1982	41.0	39.0	270	10,530	4.70	49,491
	1983	43.0	41.0	240	9,840	n.a.	n.a.
Hay, all (ton)	1979	n.a.	1,330	2.96	3,937	36.00	141,732
	1980	n.a.	1,310	3.09	4,048	36.50	147,752
	1981	n.a.	1,270	3,22	4,094	56.50	231,311
	1982	n.a.	1,370	3.17	4,347	54.50	236,912
	1983	n.a.	1,400	3.19	4,470	59.50	265,965
Hay, alfalfa (ton)	1979	n.a.	1,040	3.20	3,328	n.a.	n.a.
	1980	n.a.	1,020	3.40	3,468	n.a.	n.a.
	1981	n.a.	1,000	3.50	3,500	n.a.	n.a.
	1982	n.a.	1,050	3.50	3,675	n.a.	n.a.
	1983	n.a.	1,100	3.60	3,960	n.a.	n.a.
Spearmint, for oil (lb)	1979	n.a.	3.8	31	118	13.00	1,534
	1980	n.a.	3.7	29	107	13.70	1,446
	1981	n.a.	3.8	31	118	15.50	1,829
	1982	n.a.	3.9	32.0	125	14.30	1,788
	1983	n.a.	3.8	31	118	13.00	1,534
Sugarbeets(ton)	1979	93.0	88.0	17.6	1,550	38.90	60,295
	1980	99.0	97.0	19.5	1,892	40.70	77,004
	1981	102.0	99.0	20.5	2,030	26.50	53,795
	1982	97.5	96.5	19.2	1,853	35.80	66,337
	1983	106.0	104.0	19.0	1,976	n.a.	n.a.

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1984).

a. Marketing year
b. Production per acre in pounds.
n.a.: Not available.

TABLE XII-8. ACREAGE, PRODUCTION, AND VALUE OF MICHIGAN AGRICULTURAL PRODUCE FOR FRESH MARKET: 1979–1983

Crop and season	Year	Acres		Production		Price received (per cwt)	Value of production[a] ($1,000)
		Planted	Harvested	Per acre (cwt)	Total (1,000 cwt)		
Carrots	1979	6,700	6,600	260	1,713	7.82	13,403
	1980	6,800	5,600	239	1,340	11.70	15,704
	1981	7,000	5,600	235	1,316	9.43	12,408
	1982	7,500	6,700	255	1,709	7.59	12,868
	1983	7,400	7,200	230	1,656	11.20	18,600
Cauliflower	1979	1,200	1,100	70	77	27.70	2,132
	1980	1,200	1,000	50	50	36.50	1,824
	1981	1,200	1,000	62	62	37.90	2,350
	1982	1,300	1,200	58	70	28.70	2,009
	1983	1,400	1,200	55	66	34.00	2,243
Celery	1979	2,700	2,600	443	1,153	9.52	10,982
	1980	3,200	3,100	447	1,387	9.29	12,890
	1981	3,400	3,200	450	1,440	11.00	15,784
	1982	3,500	3,300	470	1,551	10.60	16,400
	1983	3,600	3,500	370	1,295	12.70	16,504
Strawberries	1979	2,900	2,800	70	196	51.20	10,041
	1980	2,800	2,700	65	176	47.50	8,358
	1981	2,800	2,700	65	176	47.10	8,296
	1982	2,800	2,700	80	216	53.10	11,476
	1983	2,800	2,700	60	162	51.90	8,412
Corn, sweet	1979	11,700	11,500	58	667	8.28	5,523
	1980	11,700	11,500	67	771	8.92	6,877
	1981	12,000	11,500	61	702	9.84	6,908
	1982	12,500	12,200	66	805	8.81	7,092
	1983	12,500	12,000	70	840	11.10	9,324

TABLE XII-12. MICHIGAN VEGETABLES FOR PROCESSING, ACREAGE, YIELD, PRODUCTION, AND VALUE: 1978-1983

Crop and season	Year	Acres planted	Acres harvested	Production Per acre tons	Production Total tons	Price received per ton	Value of production ($1,000)
Snap beans	1978	18,000	16,400	2.10	34,450	148.00	5,099
	1979	17,600	17,300	2.08	35,980	162.00	5,829
	1980	14,600	13,700	2.80	38,360	156.00	5,984
	1981	14,600	14,300	2.53	36,180	160.00	5,789
	1982	14,600	14,200	2.58	36,640	145.00	5,313
	1983	15,100	14,800	2.80	41,44	144.00	5,397
Tomatoes	1978	4,600	4,500	18.04	81,200	67.30	5,465
	1979	5,700	5,600	18.11	101,420	68.30	6,927
	1980	6,100	6,000	12.28	73,680	72.90	5,371
	1981	6,400	6,200	19.08	118,300	86.00	10,174
	1982	9,800	9,700	21.10	204,670	92.60	18,952
	1983	9,300	9,200	19.90	183,080	84.00	15,379

SOURCE: Michigan Department of Agriculture, special release.

NOTE: Processing vegetables estimated but not published to avoid disclosure of individual operations include: beets, cabbage for kraut, sweet corn and green pears.

TABLE XII-13. QUANTITY AND VALUE OF LIVESTOCK AND POULTRY ON FARMS, MICHIGAN AND THE UNITED STATES: 1 JANUARY 1980-1984

	Michigan			United States		
Species and year	Number (1,000)	Value per head or bird	Total value ($1,000)	Number (1,000)	Value per head or bird	Total value ($1,000)
All cattle and calves						
1980	1,310	640.00	838,400	111,192	502.00	55,831,294
1981	1,340	660.00	884,400	114,321	475.00	54,292,044
1982	1,450	580.00	841,000	115,604	415.00	47,966,517
1983	1,500	540.00	810,000	115,199	406.00	46,769,240
1984	1,475	500.00	737,500	114,040	396.00	45,119,309
All hogs (including pigs)[a]						
1980	1,040	59.00	61,360	67,353	56.10	3,774,920
1981	830	79.50	65,985	64,512	74.70	4,820,793
1982	690	73.00	50,370	58,688	70.10	4,113,725
1983	800	87.50	70,000	53,935	90.00	4,852,905
1984	1,250	62.50	78,125	55,819	58.90	3,288,826
All sheep and lambs						
1980	132	68.00	8,976	12,687	78.20	992,127
1981	124	75.00	9,300	12,936	69.80	903,332
1982	130	64.00	8,320	12,966	56.90	737,777
1983	100	58.00	5,800	12,026	51.80	622,548
1984	110	63.00	6,930	11,411	52.10	594,457
All chickens[a]						
1980	8,000	1.45	11,600	400,585	1.81	726,365
1981	8,200	1.35	11,070	392,110	1.88	738,646
1982	8,100	1.50	12,150	384,838	1.89	727,188
1983	7,800	1.45	11,310	378,609	1.85	701,474
1984	7,500	1.60	12,080	364,548	1.96	716,192
Turkeys - breeder hens[a]						
1980	44	13.00	572	3,705	13.58	50,304
1981	52	18.00	936	3,749	14.11	52,887
1982	50	12.00	600	3,514	15.35	53,962
1983	45	14.00	630	3,429	14.60	50,053
1984	38	15.00	570	3,155	17.59	55,500
Total value - all species						
1980	--	--	920,908	--	--	61,375,010
1981	--	--	971,691	--	--	60,807,702
1982	--	--	912,440	--	--	53,599,169
1983	--	--	897,740	--	--	52,996,220
1984	--	--	835,205	--	--	49,774,284

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, MI, 1984).

a. 1 December of previous year.

TABLE XII-8. ACREAGE, PRODUCTION, AND VALUE OF MICHIGAN AGRICULTURAL PRODUCE FOR FRESH MARKET: 1979-1983 (cont.)

Crop and season	Year	Acres		Production		Price	Value of
		Planted	Harvested	Per acre (cwt)	Total (1,000 cwt)	received (per cwt)	production[a] ($1,000)
Lettuce	1979	1,500	1,400	200	280	22.00	6,160
	1980	1,600	1,200	210	252	19.30	4,864
	1981	1,400	1,200	215	258	22.00	5,676
	1982	1,600	1,500	250	375	13.80	5,175
	1983	1,600	1,200	190	228	16.50	3,762
Onions[a]	1979	8,000	7,900	340	2,686	4.69	10,506
	1980	7,500	7,200	250	1,800	13.20	18,480
	1981	7,500	7,300	335	2,446	10.70	22,898
	1982	7,500	7,300	320	2,336	6.11	11,811
	1983	7,500	7,400	310	2,294	14.30	27,084
Tomatoes	1979	3,600	3,400	120	408	25.10	10,241
	1980	3,700	3,400	110	374	24.50	9,163
	1981	3,600	3,400	115	391	24.50	9,580
	1982	3,800	3,500	115	403	19.60	7,899
	1983	3,600	3,300	120	396	28.10	11,128

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1984).

a. For Onions-- value of sales.

TABLE XII-9. NUMBER OF TREES OF BEARING AGE, ACREAGE IN, AND PRODUCTION OF FRUIT CROPS IN MICHIGAN: 1979-1983

Fruit	Year	Trees of bearing age: Number (1,000)	Trees of bearing age: Acres (1,000)	Production (million pounds): Total	Production (million pounds): Utilized	Price received (dollars per cwt.)	Value of production ($1,000)
Apples	1979	2,900	42.5	680	680	7.80	53,040
	1980	3,100	43.0	900	900	6.20	55,600
	1981	3,300	44.0	660	660	9.10	59,760
	1982	3,500	44.5	980	980	6.90	68,000
	1983	3,700	46.5	750	750	8.90	67,000
Cherries, tart	1979	2,650	28.2	100	100	48.50	48,500
	1980	2,700	29.4	150	149	20.40	30,396
	1981	2,650	27.8	88	88	46.40	40,788
	1982	2,600	27.0	260	195	13.70	26,805
	1983	2,850	29.7	87	87	49.10	42,721
Cherries, sweet	1979	775	9.3	54	54	20.35	10,989
	1980	700	8.4	58	58	17.70	10,266
	1981	675	8.1	46	46	18.75	8,635
	1982	625	7.5	62	51	19.90	10,160
	1983	625	7.5	36	36	23.00	8,272
Peaches	1979	500	4.9	35	35	19.40	6,790
	1980	450	4.4	40	40	19.20	7,680
	1981	425	4.1	35	35	19.20	6,734
	1982	400	3.8	50	50	20.90	10,459
	1983	475	4.5	35	35	21.50	7,526

TABLE XII-9. NUMBER OF TREES OF BEARING AGE, ACREAGE IN, AND PRODUCTION OF FRUIT CROPS IN MICHIGAN: 1979-1983 (cont.)

Fruit	Year	Trees of bearing age Number (1,000)	Acres (1,000)	Production (tons) Total	Utilized	Price received (dollars per cwt.)	Value of production ($1,000)
Grapes	1979	6,600	13.5	58,500	58,500	237	13,865
	1980	6,300	13.0	49,500	49,500	240	11,858
	1981	6,100	12.7	53,000	53,000	252	13,370
	1982	5,900	12.5	58,500	58,500	201	11,758
	1983	5,900	12.5	60,000	60,000	194	11,662
Pears	1979	250	2.7	9,000	9,000	198	1,782
	1980	225	2.4	10,000	10,000	223	2,230
	1981	200	2.1	9,000	9,000	224	2,016
	1982	180	1.9	12,000	11,000	220	2,418
	1983	165	1.7	8,000	8,000	237	1,899
Prunes & Plums	1979	400	4.2	14,000	14,000	207	2,898
	1980	350	3.7	12,500	12,500	208	2,602
	1981	300	3.1	16,000	16,000	140	2,237
	1982	275	2.8	11,000	11,000	261	2,866
	1983	275	2.8	13,000	13,000	203	2,636

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1984).

TABLE XII-10. MICHIGAN STRAWBERRIES FOR FRESH MARKET AND PROCESSING, PRODUCTION, PRICE, AND VALUE: 1979-1983

	Fresh market			Processing		
Year	Production (1,000 cwt)	Price received per cwt	Value of production ($1,000)	Production (1,000 cwt)	Price received per cwt	Value of production ($1,000)
1979	143	56.10	8,022	2,650	762.00	2,019
1980	137	51.10	7,001	1,950	696.00	1,357
1981	137	49.20	6,740	1,950	798.00	1,556
1982	173	55.00	9,515	2,150	912.00	1,961
1983	115	55.00	6,325	2,350	888.00	2,087

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1984).

TABLE XII-11. MICHIGAN CARROTS FOR FRESH MARKET AND PROCESSING, PRODUCTION, PRICE, AND VALUE: 1979-1983

	Fresh market			Processing		
Year	Production (1,000 cwt)	Price received per cwt	Value of production ($1,000)	Production (tons)	Price received per ton	Value of production ($1,000)
1979	1,129	10.70	12,104	29,200	44.50	1,299
1980	880	16.30	14,371	22,980	58.00	1,333
1981	830	13.50	11,205	24,300	49.50	1,203
1982	1,092	10.30	11,248	30,860	52.50	1,620
1983	1,133	15.30	17,335	26,130	48.40	1,265

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1984).

TABLE XII-14. QUANTITY OF LIVESTOCK AND POULTRY ON MICHIGAN FARMS, BY CLASS: 1 JANUARY 1980-1984

(In 1,000 head)

Species and class	1980	1981	1982	1983	1984
Cattle and calves					
Classification by sex and weight					
Cows and heifers that have calved	540	530	610	615	560
Beef cows	140	140	214	215	158
Milk cows	400	390	396	400	402
Heifers, 500 pounds and over	257	260	254	275	282
For beef cow replacement	25	36	35	52	36
For milk cow replacement	193	174	179	171	180
Other heifers	39	50	40	52	66
Steers, 500 pounds plus	181	177	190	188	230
Bulls, 500 pounds plus	22	19	20	24	23
Calves, less than 500 pounds	310	354	376	398	380
All cattle and calves	1,310	1,340	1,450	1,500	1,475
Hogs[a]					
All hogs	1,040	830	690	800	1,250
Breeding hogs	161	120	105	135	170
Market hogs	879	710	585	665	1,080
Sheep and lambs					
Ewe lambs	16	15	16	12	13
Wether and ram lambs	3	4	4	3	4
Ewes, 1 year plus	82	80	83	68	72
Rams and wethers, 1 year plus	3	3	3	2	3
Sheep and lambs on feed	28	22	24	15	18
All sheep and lambs	132	124	130	100	110
Chickens[a]					
Pullets of laying age	3,850	3,860	3,800	3,550	3,550
Hens	2,400	2,540	2,500	2,450	2,450
Pullets, 3 months plus	825	950	820	850	725
Pullets, less than 3 months	885	800	940	900	775
Other chickens	40	50	40	50	50
All chickens	8,000	8,200	8,100	7,800	7,550
Turkeys					
Breeding hens	44	52	50	45	38

SOURCE: Michigan Department of Agriculture, *Michigan Agricultural Statistics* (Lansing, MI: 1984.

[a] 1 December inventory of previous year.

TABLE XII-15. NUMBER OF WORKERS ON MICHIGAN FARMS: 1974-1983

(Annual averages in thousands of persons)

Workers	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Family	95	83	83	77	90	80	79	#	73	79
Hired	24	27	29	25	47	48	51	#	45	35
Total	119	110	112	102	137	128	130	#	118	114

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, MI: 1984).

#. Data not collected in 1981.

TABLE XII-16. FIRST FIVE RANKING COUNTIES IN MICHIGAN FOR SELECTED CROP PRODUCTION: 1983

Item	1	2	3	4	5
Corn	Huron	Sanilac	Tuscola	Lenawee	Branch
Soybeans	Saginaw	Lenawee	Monroe	Gratiot	Shiawassee
Wheat	Tuscola	Huron	Sanilac	Lenawee	Saginaw
Dry beans	Tuscola	Huron	Gratiot	Bay	Saginaw
Oats	Sanilac	Huron	Shiawassee	Tuscola	Washtenaw

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, MI: 1984).

TABLE XII-17. MICHIGAN YIELDS PER ACRE, NINE LEADING CROPS: 1976-1983

Item	1976	1977	1978	1979	1980	1981	1982	1983
Corn, grain (bu)	69.0	85.0	81.0	95.0	95.0	96.0	107.0	92.0
Winter wheat (bu)	38.0	40.0	40.0	43.0	44.0	50.0	41.0	49.0
Oats (bu)	51.0	55.0	57.0	61.0	60.0	62.0	63.0	52.0
Barley (bu)	46.0	52.0	47.0	47.0	53.0	54.0	59.0	49.0
Potatoes (cwt)	231	257	235	235	231	235	260	228
Soybeans (bu)	20.5	31.0	24.0	30.0	33.0	30.0	31.0	32.0
Dry beans (cwt)	10.0	11.8	11.5	14.0	13.6	12.2	14.5	13.0
Sugar beets (tons)	16.8	21.0	19.3	17.6	19.5	20.5	19.2	19.0
Hay, all (tons)	2.4	2.2	2.7	2.9	2.9	3.1	3.2	3.2

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, MI: 1984).

TABLE XII-18. - TOP RANKING AGRICULTURAL PRODUCTS GROWN IN MICHIGAN: 1983

Commodity	Rank among states	Production (1,000)	Unit	Percent of U.S. production	Leading state
Tart cheries	1	87,000	lbs.	56.3	Michigan
Dry beans	1	4,550	cwt.	29.8	Michigan
Navy beans	1	3,750	cwt.	81.2	Michigan
Cranberry beans	1	374	cwt.	100.0	Michigan
Black turtle beans	1	28	cwt.	60.9	Michigan
Apples	3	750,000	lbs.	9.2	Washington
Carrots	3	1,656	cwt.	7.4	California
Celery	3	1,295	cwt.	7.4	California
Mushrooms	3	18,865	lbs.	3.8	Pennsylvania
Prunes and plums	3	13	tons	20.9	Oregon
Red kidney beans	3	207	cwt.	21.0	California
Sweet cherries	3	36,000	lbs.	10.0	Washington
Tomatoes, processing	3	183	tons	2.6	California

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, MI: 1984).

TABLE XII-19. MICHIGAN FARM WORKERS AND WAGES: JULY OF SELECTED YEARS

Year	Workers hired (1,000)	Worker wage rates ($ per hour)	Total number of workers (1,000)
1953	75	1.01	336
1958	78	1.05	301
1963	73	1.12	255
1968	44	1.55	172
1973	37	2.12	153
1978	47	2.95	137
1979	48	3.33	128
1980	51	3.65	130
1981	(a)	(a)	(a)
1982	45	3.70	118
1983	35	4.03	114

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, MI: 1984).

a. Data not collected in 1981.

TABLE XII-20. FARM PRODUCTION EXPENSES: LAKE STATES (MICHIGAN, MINNESOTA, WISCONSIN), 1982

Item[a]	Total expenditures[b] ($1,000)	Percentage of farms reporting[c]	Average per farm[c]
Current farm operating expenses[d]:			
Farms services	1,989,782	99.5	7,653
Feed	1,679,436	77.5	6,459
Seeds, plants, fertilizer and chemicals	1,866,618	86.1	7,179
Interest and taxes	2,356,355	90.0	9,063
Livestock and poultry	1,126,879	65.3	4,334
Wages and contract labor	984,264	59.8	3,786
Fuels and energy	1,151,849	99.2	4,430
Autos, trucks, tractors and machinery	1,312,396	68.7	5,047
Farm and motor supplies	961,877	98.1	3,700
Building and fencing	750,192	72.3	2,885

SOURCE: Michigan Department of Commerce, *Michigan Agricultural Statistics* (Lansing, MI: 1984).

a. Farm share.
b. Totals may not add due to rounding.
c. Expanded number of farms reporting or total expenditure divided by expanded number of sample farms within each economic class.
d. Landlord expenditures for real estate interest and taxes are included.

TABLE XII-21. RANKING OF MICHIGAN COUNTIES ACCORDING TO LABOR AND PROPRIETORS' EARNINGS IN AGRICULTURE AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS'EARNINGS: 1983

County	Percentage		County	Percentage	
	1973	1983		1973	1983
Leelanau	19.79	20.36	Isabella	10.88	2.33
Missaukee	33.15	18.63	Ontonagon	0.95	2.14
Oceana	28.40	15.58	Mecosta	9.68	2.08
Clinton	18.90	11.38	Charlevoix	2.74	1.96
Cass	13.52	10.81	Mackinac	1.95	1.93
Hillsdale	12.07	9.11	Baraga	1.38	1.92
Barry	9.30	8.93	Alpena	1.67	1.81
Van Buren	10.31	8.55	Delta	2.59	1.65
Newaygo	14.15	8.16	Iron	2.62	1.53
Huron	27.91	7.64	Emmet	1.88	1.47
Gratiot	14.56	7.38	Cheboygan	2.13	1.45
St. Joseph	7.45	7.30	St. Clair	2.67	1.38
Alcona	10.19	7.09	Saginaw	2.27	1.33
Ionia	12.52	6.80	Grand Traverse	3.11	1.32
Allegan	14.13	6.78	Kalkaska	4.73	1.12
Branch	12.25	6.26	Wexford	2.44	1.07
Arenac	18.73	6.19	Otsego	1.98	1.07
Benzie	6.80	6.17	Calhoun	2.58	1.01
Shiawassee	6.11	5.99	Bay	3.57	0.94
Lenawee	7.23	5.81	Iosco	1.87	0.81
Antrim	8.11	5.61	Houghton	1.45	0.76
Osceola	7.68	5.37	Jackson	1.91	0.70
Tuscola	17.72	5.35	Luce	1.21	0.69
Ogemaw	9.70	5.35	Dickinson	2.01	0.68
Sanilac	22.81	4.98	Kalamazoo	1.52	0.66
Eaton	8.49	4.87	Schoolcraft	1.13	0.66
Menominee	7.30	4.76	Midland	1.26	0.62
Montmorency	5.07	4.58	Muskegon	0.85	0.56
Lapeer	12.79	4.53	Ingham	0.86	0.46
Manistee	3.80	4.24	Gogebic	1.24	0.46
Livingston	5.53	4.10	Washtenaw	1.15	0.44
Oscoda	9.65	4.02	Kent	0.90	0.41
Clare	5.59	3.81	Marquette	0.19	0.35
Gladwin	7.18	3.72	Macomb	0.35	0.32
Lake	5.07	3.51	Roscommon	(D)	0.18
Mason	6.31	3.46	Oakland	0.13	0.11
Presque Isle	7.29	3.37	Genesee	0.36	0.10
Monroe	5.11	3.32	Wayne	0.02	0.05
Montcalm	10.23	3.22	Crawford	0.00	0.00
Berrien	2.47	3.12	Keweenaw	0.00	0.00
Ottawa	4.16	2.89			
Alger	2.80	2.61	Michigan	1.59	0.93
Chippewa	1.22	2.37	United States	4.46	1.32

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XII-22. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN AGRICULTURE: 1982-1983

	Percentage change			Percentage change	
County	1973-1983	1982-1983	County	1973-1983	1982-1983
Leelanau	71	59	Livingston	86	-4
Lenawee	21	34	Barry	69	-5
Benzie	78	33	Grand Traverse	17	-5
Monroe	44	32	Newaygo	13	-6
Cass	42	31	Emmet	68	-6
Kalkaska	7	29	Osceola	31	-6
Oceana	-1	29	Allegan	-2	-6
Van Buren	45	28	Tuscola	-50	-7
Roscommon	(D)	25	Dickinson	-29	-7
Muskegon	20	24	Montmorency	29	-7
Saginaw	5	24	Kent	4	-7
Shiawassee	67	23	Ontonagon	92	-8
Genesee	-44	18	Otsego	40	-8
Gogebic	-43	17	Ogemaw	20	-8
Macomb	64	16	Mackinac	99	-8
Wayne	207	16	Wexford	-1	-8
Manistee	140	15	Menominee	36	-9
Berrien	98	14	Missaukee	-11	-10
Antrim	14	12	Alpena	96	-10
Clinton	30	12	Alcona	20	-11
Presque Isle	-19	11	Delta	30	-12
St. Joseph	85	10	Gratiot	-15	-14
Branch	-3	9	Oscoda	-34	-14
Washtenaw	-8	9	Ionia	-4	-14
Luce	30	6	Lake	-7	-16
Hillsdale	34	6	Calhoun	-32	-16
Charlevoix	47	5	Eaton	11	-20
Oakland	108	5	Midland	13	-20
Kalamazoo	1	3	Jackson	-39	-21
Iron	29	2	Schoolcraft	19	-21
Ottawa	70	2	Isabella	-50	-26
Baraga	120	2	Montcalm	-26	-28
Mason	-1	1	Gladwin	2	-31
Cheboygan	30	1	Mecosta	-56	-32
Clare	45	-1	Huron	-58	-34
Marquette	279	-1	Iosco	-21	-34
Houghton	12	-2	Bay	-52	-44
Arenac	-38	-2	Sanilac	-69	-64
Ingham	24	-2	Crawford	(NA)	(NA)
Alger	70	-2	Keweenaw	(NA)	(NA)
Lapeer	-30	-2			
Chippewa	137	-3	Michigan	8	0
St. Clair	8	-3	United States	-31	-20

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

(NA) Not available.

TABLE XII-23. MICHIGAN COUNTIES RANKED ACCORDING TO 1983 CASH RECEIPTS FROM TOTAL MARKETINGS: 1982 AND 1983

(Millions of dollars)

County	1982	1983	County	1982	1983
Huron	142	150	Mecosta	21	23
Ottawa	129	137	Arenac	20	22
Allegan	117	126	Mason	19	21
Lenawee	117	126	Wayne	19	20
Sanilac	117	124	Osceola	19	20
Tuscola	99	106	Antrim	15	16
Saginaw	89	96	Manistee	12	14
Kent	85	92	Ogemaw	11	12
Gratiot	81	86	Clare	11	12
Berrien	72	80	Delta	11	11
Monroe	74	79	Presque Isle	11	11
Van Buren	71	79	Alpena	11	11
Ionia	69	74	Gladwin	9	10
Clinton	69	74	Chippewa	8	9
Ingham	66	71	Benzie	7	8
Hillsdale	65	70	Iosco	7	7
St. Joseph	65	70	Charlevoix	7	7
Cass	62	70	Emmet	6	6
Lapeer	65	69	Cheboygan	5	6
Washtenaw	60	64	Wexford	5	6
Calhoun	59	63	Dickinson	5	5
Bay	59	63	Alcona	5	5
Kalamazoo	59	63	Houghton	4	4
Branch	58	63	Mackinac	3	4
Shiawassee	58	62	Marquette	3	3
Montcalm	58	62	Montmorency	3	3
Jackson	55	58	Otsego	3	3
Eaton	49	52	Ontonagon	3	3
Isabella	49	52	Kalkaska	3	3
St. Clair	44	47	Oscoda	3	3
Macomb	41	43	Alger	3	3
Barry	40	42	Iron	2	2
Oceana	37	41	Lake	2	2
Newaygo	38	41	Baraga	1	1
Livingston	37	40	Luce	1	1
Genesee	35	37	Schoolcraft	1	1
Oakland	28	29	Gogebic	1	1
Leelanau	24	28	Roscommon	0	0
Muskegon	26	28	Crawford	(NA)	(NA)
Grand Traverse	23	27	Keweenaw	(NA)	(NA)
Missaukee	23	24			
Midland	23	24	Michigan	2,937	3,152
Menominee	22	23	United States	152,260	145,864

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(NA) Keweenaw and Crawford counties have no cash receipts reported.

TABLE XII-24. MICHIGAN COUNTIES RANKED ACCORDING TO 1983 CASH RECEIPTS FROM CROPS MARKETINGS: 1982 AND 1983

(Millions of dollars)

County	1982	1983	County	1982	1983
Lenawee	77	83	Manistee	11	12
Saginaw	73	79	Mason	11	12
Tuscola	71	77	Mecosta	9	10
Huron	63	68	Antrim	8	10
Monroe	62	66	Benzie	6	7
Berrien	59	66	Presque Isle	5	5
Ottawa	60	65	Menominee	5	5
Van Buren	53	59	Delta	4	5
Bay	54	59	Gladwin	4	4
Gratiot	49	53	Missaukee	3	4
Kent	46	51	Osceola	3	3
Allegan	46	50	Alpena	3	3
Sanilac	46	50	Dickinson	3	3
St. Joseph	42	45	Charlevoix	2	3
Montcalm	37	40	Ogemaw	2	3
Ingham	35	38	Chippewa	2	2
Kalamazoo	34	36	Emmet	2	2
Lapeer	33	36	Iosco	2	2
Branch	31	34	Clare	2	2
Eaton	31	34	Cheboygan	2	2
Washtenaw	31	33	Marquette	2	2
Macomb	31	33	Wexford	2	2
Oceana	29	32	Kalkaska	1	2
Calhoun	30	32	Houghton	1	1
Ionia	29	32	Otsego	1	1
Hillsdale	29	31	Alcona	1	1
Shiawassee	28	30	Iron	1	1
Clinton	27	30	Ontonagon	1	1
Cass	24	26	Montmorency	1	1
Jackson	24	25	Luce	1	1
St. Clair	22	24	Alger	1	1
Oakland	22	23	Mackinac	0	0
Grand Traverse	19	23	Lake	0	0
Leelanau	19	23	Schoolcraft	0	0
Genesee	20	21	Oscoda	0	0
Newaygo	19	20	Baraga	0	0
Wayne	18	19	Roscommon	0	0
Livingston	17	18	Gogebic	0	0
Midland	16	18	Crawford	(NA)	(NA)
Isabella	15	17	Keweenaw	(NA)	(NA)
Barry	15	16			
Muskegon	14	16	Michigan	1,623	1,758
Arenac	12	13	United States	74,614	69,505

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.
(NA) Keweenaw and Crawford counties have no cash receipts reported.

TABLE XII-25. MICHIGAN COUNTIES RANKED ACCORDING TO 1983 CASH RECEIPTS FROM LIVESTOCK AND LIVESTOCK PRODUCTS MARKETINGS: 1982 AND 1983

(Millions of dollars)

County	1982	1983	County	1982	1983
Huron	79	82	Oceana	8	9
Allegan	71	76	Alpena	8	8
Sanilac	71	75	Delta	6	7
Ottawa	69	72	Midland	6	6
Clinton	42	44	Antrim	6	6
Cass	38	44	Chippewa	6	6
Lenawee	40	43	Oakland	6	6
Ionia	40	42	Presque Isle	5	6
Kent	39	41	Gladwin	5	5
Hillsdale	36	39	Leelanau	5	5
Isabella	34	35	Iosco	5	5
Gratiot	32	33	Charlevoix	4	5
Ingham	31	33	Bay	4	4
Lapeer	31	33	Grand Traverse	4	4
Jackson	31	33	Wexford	4	4
Shiawassee	30	31	Cheboygan	3	4
Calhoun	29	31	Emmet	3	4
Washtenaw	29	31	Alcona	3	4
Branch	27	29	Mackinac	3	3
Tuscola	27	29	Houghton	2	3
Kalamazoo	25	26	Montmorency	2	3
Barry	25	26	Dickinson	2	3
St. Joseph	23	25	Oscoda	2	2
St. Clair	22	23	Alger	2	2
Montcalm	20	21	Ontonagon	2	2
Livingston	20	21	Otsego	2	2
Missaukee	20	21	Marquette	2	2
Newaygo	19	20	Benzie	1	2
Van Buren	18	19	Kalkaska	1	1
Eaton	17	18	Lake	1	1
Menominee	17	18	Wayne	1	1
Saginaw	16	17	Manistee	1	1
Osceola	16	17	Baraga	1	1
Genesee	15	15	Iron	1	1
Berrien	13	15	Gogebic	1	1
Mecosta	12	13	Schoolcraft	1	1
Monroe	12	12	Luce	1	1
Muskegon	12	12	Roscommon	0	0
Macomb	10	11	Crawford	(NA)	(NA)
Clare	9	10	Keweenaw	(NA)	(NA)
Ogemaw	9	9			
Mason	9	9	Michigan	1,314	1,394
Arenac	8	9	United States	77,646	76,359

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(NA) Keweenaw and Crawford counties have no cash receipts reported.

XIII. MINING

Each establishment is classified on the basis of its major economic activity. Those primarily engaged in mining are tabulated in the Census of Mineral Industries, where they are further classified on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development is in progress. Mineral processing, not in conjunction with extraction, is classified in manufacturing. A major difference between census statistics and those published by the U.S. Bureau of Mines and the Geological Survey Division of the Michigan Department of Natural Resources is the exclusion of cement manufacturing in the former and its inclusion in the latter. Another difference stems from the treatment of government-owned operations, such as gravel pits mined by county road crews. Census statistics would exclude those establishments whereas the Bureau of Mines and the Geological Survey Division would not. For the most part, the Geological Survey Division and the Bureau of Mines are interested in reporting mineral production, irrespective of mine ownership. Census statistics focus on the economic nature of establishments.

Companies with operations at more than one location must report separately for each establishment; all resulting tabulations are initially based on these reports. Establishments not engaged in mineral extraction are classified in another industry. For example, the Michigan oil wells of an integrated petroleum company would be reported as a mineral establishment, but the refinery would be a manufacturing establishment, and company-operated retail or wholesale outlets for petroleum products would be classified in retail or wholesale trade. A mining establishment generally represents a unit operation even though there may be several pits, shafts, or wells. The operations of natural gas plants are included in mining inasmuch as these engage in separating hydrocarbons for use or further processing elsewhere. Establishments without paid employees and with shipments or expenditures totaling less than $500 were included.

The Bureau of Mines, U.S. Department of Interior, annually publishes Mineral Yearbook. A chapter entitled "The Mineral Industry of Michigan" is prepared in cooperation with the Geological Survey Division, Michigan Department of Natural Resources. The Geological Survey Division issues occasional releases dealing with Michigan's mineral industries. It also publishes Michigan's Oil and Gas Fields and a directory, Michigan Mineral Producers.

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TABLE XIII-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF PRODUCTION WORKERS IN MICHIGAN AND THE UNITED STATES MINING ESTABLISHMENTS: 1970-1984

	Michigan				United States			
	Employment	Weekly		Hourly	Employment	Weekly		Hourly
Year	(000)	Hours	Earnings	earnings	(000)	Hours	Earnings	earnings
1970	11.8	n.a.	n.a.	n.a.	623	42.7	164.40	3.85
1971	11.1	n.a.	n.a.	n.a.	609	42.4	172.14	4.06
1972	12.0	n.a.	n.a.	n.a.	628	42.6	189.14	4.44
1973	12.9	n.a.	n.a.	n.a.	642	42.4	201.40	4.75
1974	13.4	43.8	236.17	5.39	697	41.9	219.14	5.23
1975	13.8	42.6	258.69	6.07	752	41.9	249.31	5.95
1976	13.2	42.9	276.30	6.43	779	42.4	273.90	6.46
1977	12.1	43.1	296.53	6.88	813	43.4	301.20	6.94
1978	13.3	43.5	340.20	7.82	851	43.4	332.88	7.67
1979	13.2	43.1	372.17	8.64	958	43.0	365.07	8.49
1980	12.5	42.3	399.39	9.44	1,027	43.3	397.06	9.17
1981	12.9	42.8	432.18	10.09	1,139	43.7	438.75	10.04
1982	10.4	42.6	467.46	10.97	1,128	42.7	459.88	10.77
1983	9.0	43.1	475.44	11.03	952	42.5	479.40	11.28
1984	9.4	42.7	480.37	11.25	974	43.3	503.58	11.63

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, Employment and Earnings, (Washington, D.C.: monthly), March 1985, Tables B-1 and C-1; and Supplement to Employment and Earnings (Washington, D.C.: June, 1985).

n.a.: Data not available.

TABLE XIII-3. VALUE OF MICHIGAN FUEL AND METALLIC AND NONMETALLIC MINERAL PRODUCTION: 1950-1984

(In thousands of dollars)

Year	Fuel	Metallic	Nonmetallic[a]	Total
1950	45,475	84,212	108,787	238,474
1951	40,279	90,279	127,052	257,530
1952	38,093	94,763	134,234	267,089
1953	37,333	105,236	145,125	287,693
1954	35,667	82,525	168,375	286,550
1955	33,623	145,380	192,354	371,357
1956	32,538	157,219	216,806	406,563
1957	31,785	144,235	230,790	406,810
1958	29,701	102,119	217,703	349,523
1959	33,719	97,363	254,240	385,322
1960	50,629	134,098	250,402	435,130
1961	62,144	125,956	255,164	443,263
1962	58,127	124,431	255,131	437,689
1963	58,099	155,277	272,208	485,583
1964	55,656	188,979	300,377	545,011
1965	54,685	204,241	30,875	526,801
1966	54,606	211,355	323,628	589,589
1967	53,371	207,975	334,104	595,449
1968	56,600	213,930	347,476	612,826
1969	55,580	248,945	354,904	659,445
1970	51,326	249,332	383,460	684,118
1971	49,292	226,325	380,166	655,783
1972	57,847	233,331	407,333	698,511
1973	80,194	276,526	460,230	816,950
1974	190,134	369,225	497,942	1,057,301
1975	327,456	425,201	492,695	1,245,352
1976	435,234	487,172	560,838	1,483,244
1977	506,965	414,390	640,506	1,561,861
1978	594,802	609,908	753,101	1,957,811
1979	803,378	697,342	823,159	2,323,879
1980	1,101,463	735,937	832,471	2,669,871
1981[p]	1,429,372	767,040	732,372	2,928,784
1982[p]	1,496,871	348,926	629,310	2,475,107
1983	1,400,315	n.a.	n.a.	n.a.
1984[p]	1,350,000	620,098	732,546	2,702,644

SOURCE: Michigan Department of Natural Resources, special release; and United States Department of Interior, Bureau of Mines, special release.

a. Includes cement, classified in manufacturing by the U.S. Bureau of the Census.
p: Preliminary.
n.a.: Data not available.

TABLE XIII-6. NUMBER OF ACTIVE MINES, SHIPMENTS, AND AVERAGE NUMBER OF MEN EMPLOYED IN IRON ORE MINING IN MICHIGAN: 1957-1984

Year	Number of active mines	Shipments by range (thousands of long tons) Marquette	Menominee	Gogebic	Employment
1957	36	5,993	4,297	2,837	6,311
1958	32	3,722	3,095	1,394	4,912
1959	27	3,530	2,478	1,251	4,163
1960	27	4,945	4,121	1,890	4,723
1961	24	4,183	3,886	1,362	3,466
1962	21	4,500	3,462	1,480	2,857
1963	19	5,850	4,304	813	3,586
1964	16	7,945	4,624	1,403	3,912
1965	16	8,925	4,361	773	3,775
1966	15	9,660	4,328	364	3,690
1967	12	10,165	3,630	239[a]	3,430
1968	11	9,367	3,449	0	3,090
1969	11	11,163	3,390	0	3,061
1970	7	10,336	2,925	0	2,798
1971	7	9,331	2,834	0	2,425
1972	6	9,251	2,577	0	2,226
1973	6	9,941	2,374	0	2,322
1974	6	9,009	2,522	0	2,548
1975	6	12,143	2,235	0	2,949
1976	6	13,362	2,326	0	3,075
1977	6	9,683	2,332	0	3,344
1978	6	15,934	2,252[b]	0	3,294
1979	5	14,993[c]	2,358	0	3,083
1980	4	15,734	1,866	0	2,822
1981	4	15,364	182	0	2,153
1982	2	7,007[d]	100[d]	0	1,766
1983	2	10,148	0	0	1,433
1984	2	13,053	0	0	1,745

SOURCE: Michigan Department of Natural Resources, Geological Survey Division, special release.

[a] Peterson mine permanently closed January 1967. Stockpile shipments completed in 1967.

[b] Sherwood mine closed July 1978, shipments continued through 1979.

[c] Mather mine closed July 1979, shipments continued through 1979.

[d] Republic and Groveland mines closed in 1982. Only the Empire and Tilden mines now operating.

TABLE XIII-7. PRODUCTION AND SHIPMENTS OF PORTLAND AND MASONRY CEMENT FROM MICHIGAN MILLS: 1957-1984

Year	Number of plants	Production (barrels)	Shipment (barrels)	Value of shipments
1957	8	21,015,000	22,045,034	71,605,137
1958	8	19,841,000	20,911,990	70,432,501
1959	8	21,561,000	23,025,928	77,323,974
1960	9	20,971,000	22,351,498	77,694,087
1961	9	21,661,000	23,462,554	79,638,973
1962	9	23,070,000	24,198,903	77,601,954
1963	9	24,194,000	26,694,665	81,446,667
1964	9	26,802,000	28,133,856	89,270,172
1965	8	27,018,000	29,135,052	92,369,052
1966	8	28,848,000	29,683,903	92,634,187
1967	9	31,350,682	31,131,016	90,810,328
1968	9	32,779,308	32,868,574	104,684,405
1969	9	31,982,736	31,790,616	103,897,422
1970	9	31,982,091	32,318,659	110,513,273
1971	9	33,723,094	33,750,455	109,833,119
1972	9	32,717,784	32,719,919	117,368,094
1973	9	33,781,604	34,515,369	129,627,462
1974	8	n.a.	32,552,275	146,822,510
1975	8	n.a.	25,581,964	138,356,710
1976	8	28,358,195	27,388,260	153,751,000
1977	8	5,815,974[a]	5,796,698[a]	175,458,343
1978	7	6,210,009[a]	6,189,337[a]	225,402,230
1979	7	6,053,375[a]	5,944,109[a]	268,502,624
1980	7	4,972,330[a]	4,856,465[a]	238,977,675
1981	6	4,112,381[a]	4,044,292[a]	191,224,916
1982	6	3,433,127[a]	3,389,819[a]	158,285,026
1983[p]	n.a.	n.a.	4,085,000[a]	195,080,000
1984[p]	n.a.	n.a.	4,500,000[a]	206,940,000

SOURCE: Michigan Department of Natural Resources, special release.

NOTE: one barrel= 376 pounds or 0.188 short tons.

a. Short tons.
p: Preliminary.

n.a.: Data not available.

TABLE XIII-8. COPPER PRODUCTION IN MICHIGAN, BY COUNTY: 1957-1984

(In pounds)

Year	Houghton	Keweenaw	Ontonagon	Total
1957	21,781,882	22,843,409	69,021,852	113,647,143
1958	16,345,030	23,886,930	81,827,063	122,059,023
1959	20,689,233	22,730,365	69,661,935	113,081,533
1960	21,704,276	18,592,215	75,142,046	115,438,537
1961	20,175,410	18,337,000	103,756,178	142,268,588
1962	24,072,160	13,075,067	106,613,451	143,760,678
1963	22,879,603	13,000,730	113,900,191	149,780,524
1964	19,818,237	9,507,806	108,458,751	137,784,794
1965	15,759,103	6,414,944	123,743,392	145,917,439
1966	17,433,796	8,128,529	121,181,717	146,744,040
1967	16,695,626	7,763,357	92,731,257	117,190,240
1968	6,592,118	4,696,188	137,092,516	148,380,322
1969	0	0	149,952,283	149,952,283
1970	0	0	135,086,800	135,086,800
1971	0	0	112,155,147	112,155,147
1972	0	0	131,937,378	131,937,378
1973	0	0	151,678,939	151,678,939
1974	0	0	131,037,602	131,037,602
1975	1,455,657	0	140,819,850	142,275,507
1976	3,886,218	0	83,044,081	86,930,299
1977	0	0	85,960,551	85,960,551
1978	0	0	78,301,136	78,301,136
1979	0	0	87,469,886	87,469,886
1980	0	0	71,540,437	71,540,437
1981	0	0	86,723,895	86,723,895
1982	0	0	45,202,832	45,202,832
1983	0	0	2,111,876	2,111,876
1984	0	0	0	0

SOURCE: Michigan Department of Natural Resources, special release, and special release from private sources.

TABLE XIII-9. MICHIGAN CRUSHED STONE SOLD OR USED BY PRODUCERS, BY USE: 1983

(Thousand short tons and thousand dollars)

Use	Quantity	Value
Coarse aggregate (+1-1/2 inch):		
Riprap and jetty stone	124	399
Coarse aggregate, graded:		
Concrete aggregate, coarse	2,453	5,781
Bituminous aggregate, coarse	321	928
Bituminous surface treatment aggregate	115	356
Railroad ballast	254	667
Fine aggregate (-3/8 inch):		
Stone sand, bituminous mix or seal	498	1,483
Screening, undesignated	42	119
Coarse and fine aggregate:		
Graded road base or subbase	1,375	2,844
Unpaved road surfacing	1,492	5,739
Crusher run or fill or waste	172	526
Agricultural:		
Agricultural limestone	364	1,329
Agricultural marl	19	39
Chemical and metallurgical:		
Cement manufacture	5,231	11,631
Lime manufacture	4,999	18,537
Flux stone	4,787	19,822
Other uses[a]	2,515	11,954
Total[b]	24,763	82,152

SOURCE: U.S. Bureau of Mines, Minerals Yearbook, 1983.

a. Includes poultry grit and mineral food, filter stone, stone sand--concrete, terrazzo and exposed aggregate, chemical stone for alkali works, paper manufacture, sugar refining, waste material, combined coarse and fine aggregate (not elsewhere classified,), and other uses.

b. Data may not add to totals shown because of independent rounding.

TABLE XIII-2. SELECTED DATA FOR MINERAL INDUSTRIES IN MICHIGAN AND THE UNITED STATES: 1954, 1958, 1963, 1967, 1972, 1977, AND 1982

Year	Establishments Total (Number)		All employees[a] Number (0,000)		All employees[a] Payroll ($1,000,000)		Value added in Mining ($1,000,000)	
	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.
1954	567	37,641	16.4	787.1	76.3	3,394.8	149.1	11,558.7[d]
1958	539	36,392	14.3	733.9	73.2	3,749.0	158.0	13,385.2
1963	691[b]	38,651[c]	12.2	615.6	75.2	3,742.5	223.1	15,910.0
1967	459[b]	28,579[c]	12.2	567.3	88.0	4,186.8	289.9	19,330.2
1972	409[b]	25,269[c]	11.4	595.1	119.9	6,225.5	306.3	26,470.6
1977	499[b]	31,359[c]	11.3	798.8	203.3	13,166.8	938.9	68,013.1
1982[e]	940	72,990	10.8	1,105.1	280.2	28,329.5	1,937.5	190,237.2

SOURCE: Bureau of the Census, 1977 Census of Mineral Industries, Geographic Area Series (Washington, D.C.: March 1981), MIC77-A-3, Table 1; and 1982 Census of Mineral Industries, Geographic Area Statistics (Washington, D.C.: July 1984), Table 1.

a. For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for hours worked. No data was obtained on other employees at such operations; hence, the same employment and payroll figures are included for all employees as for production, development, and exploration workers.

b. In 1977, 1972, and 1967 data for companies without paid employees were excluded from the census of mineral industries. In 1963, there were 854 single-unit establishments without paid employees in the states covered by this report. In the 1963 census, establishments without paid employees for mining as a whole accounted for approximately 3 percent of value added.

c. In 1977, 1972, and 1967, data for single-unit establishments without paid employees were excluded from the census. In 1963, there were 6,543 single-unit establishments without paid employees in the States. In the 1963 census, establishments without paid employees for mining as a whole accounted for approximately 3 percent of value added.

d. Excludes data for uranium-radium-vanadium ores industry.

e. Preliminary data.

TABLE XIII-4. VALUE OF MICHIGAN MINERAL PRODUCTION, BY PRODUCT: 1976-1984

(In thousands of dollars)

Mineral	1976	1977	1978	1979	1980	1981	1982[p]	1983	1984[p]
Iron ore	427,339	357,565	576,359	613,174	652,599	687,057	313,000	n.a.	613,086
Cement	138,357	153,751	176,701	225,519	268,513	191,225	155,400	n.a.	206,940
Petroleum	329,637	360,995	427,881	524,257	664,000	992,435	1,036,227	859,566	820,000
Sand & gravel	78,372	97,503	108,832	116,597	98,700	95,787[h]	72,400	80,877	94,040
Natural salines[a]	124,122	138,712	169,474	185,218	182,347	193,635	195,063	n.a.	204,185
Copper	59,113	59,115	49,071	79,195	75,733	79,982	35,926	n.a.	7,012
Salt	79,740	78,864	83,263	82,540	76,875	103,293	86,901	93,306	89,533
Stone[b]	63,517	66,331	96,789	99,998	85,568	94,453	70,910	n.a.	88,129
Lime	39,686	42,015	45,814	43,373	37,603	36,800	32,559	23,142	28,991
Natural gas	106,739	145,970	166,921	279,121	386,000	435,937	460,594	540,750	530,008
Gypsum (crude)[c]	8,760	10,769	18,996	14,633	13,573	6,762	6,913	8,104	9,988
Clay & shale	4,741	5,126	6,993	7,430	6,495	5,862	4,005	5,693	5,341
Natural gas liquids[e]	(f)	(f)	(f)	(f)	(f)	(f)	(f)	(f)	(f)
Peat	3,714	4,754	3,843	4,847	5,473	4,540	5,144	4,286	4,812
Silver	1,223	1,987	1,836	4,973	2,795	(i)	(i)	(i)	(i)
Marl	156	63	59	n.a.	n.a.	(j)	(j)	(j)	(j)
Miscellaneous	936	856	1,060	10	10	n.a.	n.a.	n.a.	n.a.
TOTAL	1,483,244	1,537,621	1,982,710	2,323,879	2,530,711	2,928,784	2,475,107	1,615,724	2,702,644

SOURCE: Michigan Department of Natural Resources, Michigan Mineral Producers (Lansing: annually), and special release.

NOTE: 1977 and 1978 totals adjusted to avoid double counting: stone used in the manufacture of cement and lime in Michigan; sandstone crushed to manufacture industrial sand; shale, clay, gypsum, and sand used in cement manufacturing in Michigan; sand and gravel; sand and gravel includes industrial sand; 1979 and 1980 stone includes marl.

a. Bromine, magnesium compounds, calcium-magnesium chloride, potash, and iodine.
b. Does not include limestone and dolomite used in the manufacture of cement and lime (1976 only that used within Michigan has been deducted).
c. 1976 value of gypsum used in Michigan to manufacture cement has been deducted.
d. Title brick, pottery, clay used for cement, lightweight aggregate, and miscellaneous (1976 value used in Michigan for cement has been deducted).
e. Includes liquids stripped from gas delivered via interstate pipeline.
f. Included in petroleum and natural gas according to Proration Unit.
g. Included in miscellaneous.
h. Estimated
i. Included in copper.
j. Included in stone.
p. Preliminary
n.a.: Data not available.

TABLE XIII-5. QUANTITY OF SELECTED MINERALS AND FUELS PRODUCED IN MICHIGAN: 1978-1984

Commodity	Units of measure	1978	1979	1980	1981	1982	1983[p]	1984[p]
Metallic								
Copper	1,000 short tons	38	44	36	43	32[p]	n.a.	5
Iron	1,000 long tons	17,538	17,081	16,267	15,602	6,700[p]	n.a.	12,974
Silver	1,000 troy ounces	354	475	(C)	(C)	(C)	n.a.	n.a.
Nonmetallic								
Cement	1,000 short tons	6,210	5,944	4,972	4,044	3,390	4,085	4,500
Clay and shale	1,000 short tons	2,122	2,072	1,982	1,610	1,022	1,530	1,352
Gypsum	1,000 short tons	2,765	2,562	1,383	1,066	682	790	1,218
Lime	1,000 short tons	1,291	r/1,057	836	807	571	583	557
Natural saline[b]	1,000 short tons	1,365	n.a.	n.a.	1,183	1,038[p]	n.a.	1,203
Peat	1,000 short tons	220	258	253	237	241	186	223
Salt	1,000 short tons	3,741	3,080	2,406	2,321	2,002	1,331	1,160
Sand and gravel	1,000 short tons	48,260	50,169	36,597	32,293	23,487	26,500	30,640
Stone[a]	1,000 short tons	40,688	39,818	32,100	30,019	20,704[p]	25,004	26,804
Fuels								
Petroleum	1,000 barrels	34,667	34,862	33,808	32,664	31,596[p]	31,335[d]	30,935
Natural gas	1,000 thousand cubic feet	150,535	150,731	158,302	152,593	143,319[p]	154,500[d]	141,550

SOURCE: Michigan Department of Natural Resources, special release.

a. Includes marl.
b. Includes bromine, iodine, calcium-magnesium chloride, and magnesium compounds.
c. Included in copper.
d. Final data.
p. Preliminary data
n.a.: Data not available.

TABLE XIII-10. INDUSTRIAL SAND AND GRAVEL SOLD OR USED, BY PRODUCER AND USE: 1980, 1981, AND 1982

(In thousands of short tons and thousands of dollars)

	1980			1981			1982		
Use	Quantity	Value	Value per ton	Quantity	Value	Value per ton	Quantity	Value	Value per ton
Construction:									
Sand	13,336	$27,872	$2.09	n.a.	n.a.	n.a.	6,596	$14,016	$2.12
Gravel	19,200	45,924	2.36	n.a.	n.a.	n.a.	11,698	30,491	2.61
TOTAL[a] or average	32,536	73,166	2.25	28,100[b]	68,050[b]	2.42[b]	20,567	47,726	2.32
Industrial:									
Sand	4,062	25,188	6.20	4,393	29,787	6.78	2,920	21,934	7.51
Gravel	--	--	--	--	--	--	--	--	--
TOTAL	4,062	25,188	6.20	4,393	29,787	6.78	2,920	21,934	7.51
GRAND TOTAL[a] or average	36,597	98,354	2.69	32,493[b]	97,837[b]	3.01[b]	23,486	69,659	2.97

SOURCE: U.S. Bureau of Mines, *Minerals Yearbook*, 1983.

a. Totals may not add due to rounding.
b. Estimated

TABLE XIII-11. PERMITS TO DRILL, AND OIL AND GAS WELL COMPLETIONS IN MICHIGAN: 1955-1982

		Classification of well completions					
				Service wells			
Year	Permits issued	Oil wells	Gas wells	OBS-GS[a]	BDW-LPG[b]	Dry holes	Total completions
1955	484	204	13	1	1	291	510
1956	476	196	12	28	0	227	463
1957	461	176	40	35	3	207	461
1958	481	166	20	36	4	227	453
1959	727	257	47	72	4	272	652
1960	904	372	19	79	1	441	912
1961	849	207	57	74	3	376	817
1962	711	148	62	53	4	474	741
1963	704	135	72	56	2	384	650
1964	583	82	48	126[c]	0	376	632
1965	494	53	34	106	0	291	485
1966	430	56	45	11	2	290	404
1967	405	69	38	26	0	287	420
1968	378	70	12	30[d]	6	251	369
1969	379	73	9	26	0	239	347
1970	425	50	16	108	3	211	388
1971	425	83	31	83	13	186	396
1972	423	84	38	64	2	186	374
1973	445	81	47	67	0	173	369
1974	503	134	61	54	2	235	484
1975	653	167	40	38	0	330	571
1976	645	120	57	50	0	333	560
1977	692	136	70	49	1	341	597
1978	690	146	57	74	0	325	602
1979	649	173	58	68	0	290	589
1980	856	208	51	57	0	416	732
1981	1,048	252	43	34	0	450	779
1982	1,052	370	57	34	0	505	966

SOURCE: Michigan Department of Natural Resources, Michigan's Oil and Gas Fields, 1955 through 1982 (Lansing: annually); and special release.

a. OBS-GS: wells used for gas storage or observation.

b. LPG injection and extraction wells in liquified petroleum gas storage facilities and brine disposal wells.

c. Includes three brine disposal wells, one water injection well, and one geological information test.

d. Includes two water injection wells and one brine disposal well.

TABLE XIII-12. OIL AND GAS WELL FOOTAGE DRILLED IN MICHIGAN, BY COUNTY: 1982 AND 1983

	1982				1983		
	Total well footage				Total well footage		
County	Exploratory	Developmental	Average well depth	Total wells drilled	Exploratory	Developmental	Service
Allegan	7,249	33,975	2,945	14	5,118	19,157	
Antrim	28,279	0	5,655	5	--	--	--
Arenac	15,700	17,633	4,762	7	4,410	42,295	--
Barry	3,440	0	3,440	1	9,237	--	--
Bay	6,843	69.638	2,467	31	7,551	65,124	--
Benzie	0	11,596	5,798	2	14,091	17,604	--
Berrien	0	4,045	809	5	--	2,803	--
Branch	0	0	0	0	1,267	--	--
Calhoun	168,154	56,209	3,162	72	97,786	21,450	--
Cass	18,924	19,885	1,034	39	14,894	15,247	--
Charlevoix	0	0	0	0	8,030	--	--
Cheboygan	12,221	6,821	2,720	7	4,211	1,740	--
Clare	37,332	51,804	5,571	16	--	35,148	--
Clinton	6,716	0	3,358	2	--	--	--
Crawford	32,861	26,450	4,943	12	4,410	9,098	--
Eaton	35,545	14,542	3,339	15	62,421	15,256	--
Genesee	6,425	0	3,213	2	--	--	--
Gladwin	45,131	64,630	4,390	25	--	21,972	297
Grand Traverse	457,111	191,012	5,185	125	279,084	197,493	2,107
Hillsdale	11,313	8,238	3,910	5	25,285	36,268	--
Huron	--	--	--	--	3,165	--	--
Ingham	43,729	12,535	3,517	16	29,429	8,536	--
Ionia	--	--	--	--	9,848	--	--
Isabella	33,916	162,065	4,225	48	24,967	303,744	1,866
Jackson	10,569	4,466	3,758	4	23,336	27,262	--

TABLE XIII-12. OIL AND GAS WELL FOOTAGE DRILLED IN MICHIGAN, BY COUNTY: 1982 AND 1983 (cont.)

	1982				1983		
	Total well footage				Total well footage		
County	Exploratory	Developmental	Average well depth	Total wells drilled	Exploratory	Developmental	Service
Kalamazoo	4,358	0	2,179	2	--	--	--
Kalkaska	209,186	125,472	5,397	62	110,666	112,836	7,148
Kent	3,125	0	3,125	1	--	--	--
Lapeer	0	25,463	2,315	11	--	25,318	3,180
Lenawee	8,021	0	4,011	2	3,815	2,272	--
Livingston	14,577	0	2,915	5	46,836	2,921	--
Macomb	23,297	8,115	3,141	10	13,676	23,550	--
Manistee	190,700	147,065	3,088	77	152,568	140,878	--
Mason	21,467	0	3,578	6	47,019	--	--
Mecosta	29,118	8,385	6,251	6	32,584	3,969	--
Midland	11,928	12,922	3,106	8	9,871	70,858	--
Missaukee	73,239	268,985	5,347	64	22,107	146,170	9,488
Monroe	5,694	0	2,847	2	--	4,754	--
Montcalm	0	33,459	2,788	12	3,360	16,656	--
Montmorency	22,663	0	5.666	4	12,864	--	--
Muskegon	3,850	1,672	2,761	2	--	5,894	--
Newaygo	15,510	7,840	2,594	9	11,761	17,707	158
Oakland	16,141	4,054	4,039	5	17,704	11,471	--
Oceana	29,908	3,360	2,376	14	19,571	5,068	--
Ogemaw	0	46,124	2,562	18	--	53,397	19,430
Osceola	44,430	0	6,347	7	59,491	41,216	3,338
Oscoda	28,021	8,655	5,239	7	4,500	--	--
Otsego	186,418	83,320	3,966	68	70,364	167,395	20,800
Ottawa	3,133	4,376	2,503	3	--	--	--
Presque Isle	54,372	30,596	3,268	26	24,401	3,808	--

TABLE XIII-12. OIL AND GAS WELL FOOTAGE DRILLED IN MICHIGAN, BY COUNTY: 1982 AND 1983 (cont.)

County	1982				1983		
	Total well footage				Total well footage		
	Exploratory	Developmental	Average well depth	Total wells drilled	Exploratory	Developmental	Service
Roscommon	10,165	141,234	4,453	34	--	45,296	4,472
Saginaw	16,882	5,145	3,147	7	10,227	10,285	--
Sanilac	7,824	0	7,824	1	--	--	--
St. Clair	16,301	5,686	2,198	10	4,270	5,925	--
St. Joseph	1,334	0	1,334	1	--	--	--
Shiawassee	1,860	0	1,860	1	--	--	--
Tuscola	17,831	22,173	3,637	11	19,442	23,002	--
Van Buren	4,726	8,890	1,238	11	1,289	3,458	1,049
Washtenaw	2,501	0	2,501	1	3,550	--	--
Wexford	28,395	0	5,679	5	6,265	18,130	--
TOTAL	2,088,433	1,758,535		966	1,336,741	1,802,431	73,333

SOURCE: Michigan Department of Natural Resources, Michigan's Oil and Gas Fields, 1981 and 1982 (Lansing: annually), Table 1, and special release for 1983 data.

NOTE: Does not include reworked wells or old wells drilled deeper.

TABLE XIII-13. WELL COMPLETIONS BY MAJOR AND INDEPENDENT COMPANIES IN 1982

	Exploratory			Development			Service	
	Oil	Gas	Dry	Oil	Gas	Dry	wells	Total
Major companies								
AMOCO	1	1	9	1	0	9	0	21
Marathon	0	0	0	7	0	0	5	12
Shell	7	5	62	21	2	22	4	123
Texaco	0	0	1	0	0	0	0	1
Other	0	0	3	91	0	2	3	99
Independents	46	28	305	196	21	92	22	710
TOTAL	54	34	380	316	23	125	34	966

SOURCE: Michigan Department of Natural Resources, special release.

NOTE: Total - Exploratory wells - 468
Development wells - 464
Service wells - 34

TABLE XIII-14. STATE OF MICHIGAN REVENUE FROM OIL AND NATURAL GAS PRODUCTION: 1927-1982

Years	Royalty	Rental	Bonus	Application, assignment fees	Total income
1927-1931	$ 85,263	$ 43,822	$ 27,707	$ 1,204	$ 157,996
1932-1936	209,126	205,350	87,211	4,506	506,193
1937-1941	1,302,356	724,330	515,706	7,367	2,549,759
1942-1946	1,645,462	2,021,513	601,065	3,759	4,271,800
1947-1951	1,813,632	2,256,914	1,307,470	4,398	5,382,414
1952-1956	2,727,410	1,989,343	257,187	3,028	4,976,968
1957-1961	1,879,927	769,594	475,841	3,702	3,129,064
1962-1966	1,259,162	1,476,950	409,809	4,982	3,150,903
1967	250,785	199,399	49,192	1,126	500,501
1968	324,934	451,117	1,223,971	2,849	2,002,870
1969	404,709	819,550	894,133	872	2,119,264
1970	429,796	929,596	-132	736	1,359,996
1971	749,815	858,360	1,361	426	1,609,962
1972	944,441	831,057	10,165,151	2,854	11,943,502
1973	1,960,854	1,261,208	3,133	1,658	3,226,852
1974	5,814,636	1,280,109	7,131,732	2,248	14,228,725
1975	9,637,835	1,297,691	514,248	2,603	11,452,378
1976	13,293,209	1,328,660	524,973	616	15,147,458
1977	13,327,908	1,190,620	357,006	3,069	14,878,603
1978	18,244,756	1,131,238	14,483	1,733	19,392,210
1979	24,269,564	1,100,307	1,414,667	1,047	26,785,585
1980[a]	24,488,631	1,015,879	- 2,983	1,679	25,503,206
1981[a]	44,912,776	1,216,258	32,277,235	1,860	78,408,109
1982[a]	45,802,472	908,025	10,304,780	17,715	57,032,992

SOURCE: Michigan Department of Natural Resources, Michigan's Oil and Gas Fields, 1981 (Lansing: 1983), table 36; and special release.

a. Figures compiled on a state fiscal year basis; prior years compiled on a calendar year basis.

TABLE XIII-15. PRINCIPAL MINERAL PRODUCERS IN MICHIGAN: 1982

Commodity and company	Address	Type of activity	County
Cement:			
Dundee Cement Co.[a,b]	Box 122 Dundee, MI 48131	Quarry and plant	Monroe
Medusa Cement Co., Medusa Corp., a subsidiary of Crane Co.[a,b]	Box 5668 Cleveland, OH 44101	Quarry and plant	Charlevoix
National Gypsum Co., Cement Div.[a,b]	4000 Town Center Suite 2000 Southfield, MI 48075	Quarry and plant Pit	Alpena Antrim
Peerless Cement Co., Gifford-Hill & Co., Inc.[a]	9333 Dearborn St. Detroit, MI 48209	Pit and plant	Wayne
Clay and shale:			
Michigan Brick Inc.	3820 Serr Rd. Corunna, MI 48817	Pit and plant	Shiawassee
Copper:			
White Pine Copper Div. of Range Co.[c]	Box 427 White Pine, MI 49971	Underground mine and plant	Ontonagon
Gypsum:			
Georgia-Pacific Corp.	133 Peachtree St NE Atlanta, GA 30306	Underground mine and plant	Kent
Michigan Gypsum Co.	2840 Bay Rd. Saginaw, MI 48608	Open pit mine and plant	Iosco
National Gypsum Co.	4100 First International Bldg. Dallas, TX 75270	Open pit mine and plant	Iosco
United States Gypsum Co.	101 South Wacker Dr. Chicago, IL 60606	Open pit mine and plant	Iosco

TABLE XIII-16. NATURAL GAS PLANT OPERATIONS IN MICHIGAN, BY PLANT OR FIELD: 1982

Plant or field	Total input (Mcf.)	Sales to pipe line (Mcf.)	Liquefied petroleum gas recovery (gallons)
Albion-Scipio	5,229,689	3,503,360	19,389,970
Aurelius	4,828,550	4,078,177	12,016,278
Beaver Creek	2,190,684	42,600	871,872
Chester	0	0	0
Columbus, Section 3	1,060,816	0	1,459,711
Convis	116,735	78,577	137,955
Frederic 15	162,343	14,506	0
Hamilton[a]	104,614	40,079	0
Kalkaska (Amoco)	40,125,847	36,985,506	96,680,333
Kalkaska (Shell)	76,207,029	62,352,328	327,773,670
Leonard	1,361,895	970,547	1,574,639
Manistee (Aztoc)	173,413	70,256	291,896
Marathon (Otter Lake)	794,997	761,766	1,503,050
Otsego 27	270,439	327,391	321,235
Reed City	9,951,253	0	2,832,727
Romeo	4,436,445	4,415,789	3,562,814
White Oak	503,215	471,270	810,077
Winterfield	827,173	720,083	2,650,107
TOTAL	148,345,137	114,864,230	471,871,339

SOURCE: Michigan Department of Natural Resources, Michigan's Oil and Gas Fields, 1982 (Lansing: 1984), Table 26.

NOTE: This table is the record of plants which are serving oil field operations, or which are extracting natural gas liquids from designated dry gas sources.

a. Receives and processes oil well gas only.

TABLE XIII-17. GAS AND OIL WELL COMPLETIONS IN MICHIGAN, BY COUNTY: 1983

County	Exploratory			Development			Service		
	Oil	Gas	Dry	Oil	Gas	Dry	Gas storage	Water injection	Brine disposal well
Allegan	-	-	4	5	-	1	-	-	-
Arenac	-	-	2	6	-	2	-	-	-
Barry	-	-	3	-	-	-	-	-	-
Bay	2	-	-	14	-	6	-	-	-
Benzie	-	-	3	-	-	3	-	-	-
Berrien	-	-	-	1	-	2	-	-	-
Branch	-	-	1	-	-	-	-	-	-
Calhoun	2	2	25	3	-	6	-	-	-
Cass	1	-	12	10	1	8	-	-	-
Charlevoix	-	-	1	-	-	-	-	-	-
Cheboygan	1	-	1	1	-	-	-	-	-
Clare	-	-	-	3	-	3	-	-	-
Crawford	-	-	1	1	-	1	-	-	-
Eaton	2	-	10	-	-	5	-	-	-
Gladwin	-	-	-	5	-	1	-	1	-
Grand Traverse	2	4	48	15	5	21	-	-	1
Hillsdale	-	-	6	4	-	5	-	-	-
Huron	1	-	-	-	-	-	-	-	-
Ingham	1	-	6	1	-	1	-	-	-
Ionia	-	-	2	-	-	-	-	-	-
Isabella	2	1	2	64	2	7	1	-	1
Jackson	2	-	3	5	-	5	-	-	-
Kalkaska	2	-	16	7	3	14	1	-	-
Lapeer	-	-	-	8	-	-	-	1	-
Lenawee	-	-	1	1	-	-	-	-	-
Livingston	3	-	9	-	-	1	-	-	-
Macomb	1	-	3	5	-	3	-	-	-
Manistee	7	2	28	16	1	21	-	-	1
Mason	2	1	7	-	-	-	-	-	-
Mecosta	-	-	4	-	-	1	-	-	-
Midland	-	-	2	19	-	1	-	-	-
Missaukee	1	-	2	28	-	5	-	3	-
Monroe	-	-	-	1	-	1	-	-	-
Montcalm	-	-	1	2	-	3	-	-	-
Montmorency	1	-	2	-	-	-	-	-	-
Muskegon	-	-	-	2	-	1	-	-	-

TABLE XIII-17. GAS AND OIL WELL COMPLETIONS IN MICHIGAN, BY COUNTY: 1983 (cont.)

							Service		
	Exploratory			Development					Brine disposal
County	Oil	Gas	Dry	Oil	Gas	Dry	Gas storage	Water injection	well
Newaygo	-	2	1	5	-	-	-	1	-
Oakland	1	-	3	-	-	3	-	-	-
Oceana	-	-	5	1	-	1	-	-	
Ogemaw	-	-	-	14	-	-	-	7	-
Osceola	-	-	8	-	4	1	2	-	-
Oscoda	-	-	1	-	-	-	-	-	-
Otsego	1	2	12	10	14	9	2	1	1
Presque Isle	-	-	7	1	-	-	-	-	-
Roscommon	-	-	-	9	-	-	-	1	-
Saginaw	-	-	4	4	-	-	-	-	-
St. Clair	1	-	1	1	-	1	-	-	-
Tuscola	1	-	4	5	-	1	-	-	-
Van Buren	-	-	1	-	-	3	-	-	1
Washtenaw	1	-	-	-	-	-	-	-	-
Wexford	-	1	-	1	1	2	-	-	-
TOTALS	38	15	252	278	31	149	6	15	5

SOURCE: Michigan Department of Natural Resources, special release.

TABLE XIII-18. VALUE OF NONFUEL MINERAL PRODUCTION IN MICHIGAN, BY COUNTY[a]: 1981 AND 1982

(thousands)

County	1981	1982	Minerals produced in 1982 in order of value
Alcona	(b)	83	Sand and gravel (construction)
Alger	(b)	17	Do.
Allegan	74	W	Sand and gravel (construction), peat
Alpena	W	W	Cement, clays, sand and gravel (construction)
Antrim	W	W	Clays, sand and gravel (construction)
Arenac	931	26	Sand and gravel (construction)
Baraga	W	297	Do.
Barry	W	485	Do.
Bay	16,230	9,495	Cement, sand (industrial), lime
Benzie	(b)	80	Sand and gravel (construction)
Berrien	W	W	Sand (industrial), sand and gravel (construction)
Branch	W	533	Sand and gravel (construction)
Calhoun	W	511	Do.
Cass	W	378	Do.
Charveloix	W	29,716	Cement, sand and gravel (construction)
Cheboygan	188	29	Sand and gravel (construction)
Chippewa	W	322	Do.
Clare	(b)	320	Do.
Clinton	W	W	Sand and gravel (construction), clays
Delta	W	498	Sand and gravel (construction)
Dickinson	W	W	Iron ore, sand and gravel (construction)
Eaton	W	W	Sand and gravel (construction), peat
Emmet	W	W	Sand and gravel (construction)
Genesee	(b)	W	Do.
Gladwin	(b)	4	Do.
Gogebic	67	82	Do.
Grand Traverse	(b)	53	Do.
Gratiot	(b)	304	Do.
Hillsdale	(b)	874	Do.
Houghton	2	W	Sand and gravel (construction), sand (industrial)
Huron	W	W	Lime, sand and gravel (construction)
Ingham	W	W	Sand and gravel (construction), peat
Ionia	W	71	Sand and gravel (construction)
Iosco	W	W	Gypsum
Iron	(b)	174	Sand and gravel (construction)
Isabella	(b)	985	Do.
Jackson	W	272	Do.
Kalamazoo	W	1,827	Do.
Kalkaska	(b)	7	Do.
Kent	W	W	Sand and gravel (construction), gypsum, peat

TABLE XIII-18. VALUE OF NONFUEL MINERAL PRODUCTION IN MICHIGAN, BY COUNTY[a]: 1981 AND 1982 (cont.)

(thousands)

County	1981	1982	Minerals produced in 1982 in order of value
Keweenaw	--	44	Sand and gravel (construction)
Lake	(b)	W	Do.
Lapeer	W	W	Peat, sand and gravel (construction), calcium chloride
Leelanau	(b)	W	Sand and gravel (construction)
Lenawee	(b)	W	Do.
Livingston	(b)	2,804	Do.
Luce	(b)	60	Do.
Mackinac	W	183	Do.
Macomb	W	4,596	Sand (industrial), sand and gravel (construction)
Manistee	105,207	101,431	Magnesium compounds, salt, bromine, sand and gravel (construction)
Marquette	W	W	Iron ore, iron oxide pigments, sand and gravel (construction)
Mason	W	W	Calcium chloride, magnesium compounds, lime, bromine, sand (industrial), sand and gravel (construction)
Mecosta	W	W	Sand and gravel (construction), peat
Menominee	(b)	268	Sand and gravel (construction)
Midland	W	W	Bromine, calcium chloride, magnesium compunds, iodine, salt
Missaukee	(b)	51	Sand and gravel (construction)
Monroe	W	W	Cement, clays, peat
Montcalm	(b)	142	Sand and gravel (construction)
Montmorency	(b)	--	
Muskegon	W	W	Sand (industrial), salt, sand and gravel (construction)
Newaygo	--	W	Sand and gravel (construction)
Oakland	W	W	Sand and gravel (construction), peat
Oceana	W	W	Sand (industrial), sand and gravel (construction)
Ogemaw	(b)	853	Sand and gravel (construction)
Ontonagon	W	W	Copper, silver, sand and gravel (construction)
Osceola	(b)	W	Sand and gravel (construction)
Otsego	(b)	80	Do.
Ottawa	W	W	Sand (industrial), sand and gravel (construction)
Presque Isle	36,582	617	Sand and gravel (construction)
Roscommon	40	12	Do.
Saginaw	1,611	W	Sand (industrial), lime, sand and gravel (construction)
St. Clair	W	W	Salt, sand and gravel (construction)
St. Joseph	W	W	Sand and gravel (construction), peat
Sanilac	2,328	W	Peat, sand and gravel (construction), lime

TABLE XIII-18. VALUE OF NONFUEL MINERAL PRODUCTION IN MICHIGAN, BY COUNTY[a]: 1981 AND 1982 (cont.)

(thousands)

County	1981	1982	Minerals produced in 1982 in order of value
Schoolcraft	W	(c)	
Shiawassee	1,270	1,875	Peat, clays, sand and gravel (construction)
Tuscola	W	W	Sand and gravel (construction), sand (industrial), lime
Van Buren	(b)	447	Sand and gravel (construction)
Washtenaw	(b)	2,175	Do.
Wayne	68,920	53,774	Lime, cement, salt, sand (industrial), sand and gravel (construction), clays
Wexford	W	W	Sand (industrial), sand and gravel (construction)
Undistributed[d]	1,138,905	751,085	
Sand and gravel (construction)	68,050[e]	XX	
Stone:			
Crushed	XX	67,100[e]	
Dimension	XX	110[e]	
Total	1,440,405	1,035,184[f]	

SOURCE: U.S. Bureau of Mines, Minerals Yearbook, 1983.

a. Crawford and Oscoda counties are not listed because no nonfuel mineral production was reported. County distribution for construction sand and gravel (1981) and crushed and dimension stone (1982) is not available; total State value shown separately under Sand and gravel (construction)" or "Stone."

b. Construction sand and gravel was produced; data not available by county.

c. Stone, either crushed or dimension, was produced; data not available by county.

d. Includes gem stones that cannot be assigned to specific counties and values indicated by symbol W.

e. Estimated.

f. Data do not add to total shown because of independent rounding.

W. Withheld to avoid disclosing company proprietary data; included with Undistributed.

XX. Not applicable.

TABLE XIII-19. USABLE IRON ORE[a] (DIRECT SHIPPING AND ALL FORMS OF CONCENTRATES) BY RANGE IN MICHIGAN FOR SELECTED YEARS: 1854-1978 AND 1979-1983

Year	Marquette range	Menominee range (MI section)	Gogegic range (MI section)	Total		
				Gross weight		Percentage iron content
				Ore	Iron content	
(Thousands of long tons measurements of gross weight)						
1854-1978	478,056	312,155	249,625	1,039,836	n.a.	n.a.
1979	15,100	2,032	--	17,132	10,933	63.8
1980	14,450	1,970	--	16,420	10,482	63.8
1981	15,508	75	--	15,583	10,020	64.3
1982	6,874	--	--	6,874	4,426	64.4
1983	9,339	--	--	9,339	6,024	64.5
Total[b]	539,329	316,332[c]	249,625[c]	1,105,185	n.a.	n.a.

SOURCE: Michigan Department of Natural Resources, special release.

a. Exclusive after 1905 of iron ore containing 5 percent or more manganese.
b. Data may not add to totals shown because of independent rounding.
c. Distribution by range partly estimated before 1906.
n.a.: Data not available.

XIV. CONSTRUCTION

There have been four censuses of construction industries since 1939, one for 1967 and others for 1972, 1977, and 1983. Current law authorizes the U. S. Bureau of the Census to canvass the nation's industrial and business establishments at five-year intervals (for years ending in 2 and 7). These economic censuses cover construction industries, manufacturing, mining, retail, trade, selected services, selected transportation, and wholesale trade.

Each establishment is classified on the basis of its major economic activity: those primarily engaged in contract construction (general contractors or special trade contractors such as plumbing and electrical work), in construction for sales on their own account (operative builders), or in subdividing real property into lots (subdividers and developers, except cemeteries).

A construction establishment is a place of business from which such activities as estimating, bidding, scheduling, purchasing, supervision, and so forth, are conducted irrespective of the locations of construction sites that are not separate establishments in and of themselves. A construction concern engaging in two or more distinctly different lines of economic activity, such as wholesaling or retailing, reports on each separately, provided that each activity is of substantial size and that separate records are available or can be estimated for the activity.

Construction firms are divided into those with payroll and those without. The former were queried in a census survey as to whether they were large, medium, or small. Nonemployers were not required to complete a Census of Construction Industries questionnaire; instead, the Census Bureau obtained relevant information from administrative records of other agencies.

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TABLE XIII-15. PRINCIPAL MINERAL PRODUCERS IN MICHIGAN: 1982 (cont.)

Commodity and company	Address	Type of activity	County
Iron ore:			
Cleveland-Cliffs Iron Co.[d]	504 Spruce St. Ishpeming, MI 49849	Open pit mines and plants	Marquette
Hanna Mining Co.	Star Route 1, Box 131 Iron Mountain, MI 49801	Stockpile	Dickinson
Iron and steel:			
Ford Motor Co.	American Rd. Dearborn, MI 48121	Plant	Wayne
McLouth Steel Corp.	300 S. Livernois Ave. Detroit, MI 48209	Plant	Wayne
National Steel Corp.	2800 Grant Bldg. Pittsburgh, PA 15219	Plant	Wayne
Lime:			
Detroit Lime Co., a subsidiary of Edw. C. Levy Co.	9300 Dix Ave. Dearborn, MI 48120	Plant	Wayne
Dow Chemical Co., Ludington Div.	2020 Dow Center Midland, MI 48640	Plant	Mason
Marblehead Lime Co., a division of General Dynamics Corp.	300 West Washington St. Chicago, IL 60606	Plant	Wayne
Natural salines[e]:			
Dow Chemical Co.	2020 Dow Center Midland, MI 48640	Brine wells and plant	Mason and Midland
Martin Marietta Chemicals, Refractories Div.	Executive Plaza II Hunt Valley, MD 21030	Brine wells and plant	Manistee
Morton Chemical Co.	110 North Wacker Dr. Chicago, IL 60606	Brine wells and plant	Manistee

TABLE XIII-15. PRINCIPAL MINERAL PRODUCERS IN MICHIGAN: 1982 (cont.)

Commodity and company	Address	Type of activity	County
Peat:			
Al-Par Peat Co.	9551 Krouse Ovid, MI 48866	Bog and plant	Shiawassee
Anderson Peat Co.	Box 575 Perry , MI 48872	Bog and plant	Lapeer and Shiawassee
Michigan Peat Inc.	Box 66388 Houston, TX 77006	Bogs and plants	Sanilac
Salt:			
Diamond Crystal Salt Co.	916 South Riverside St. Clair, MI 48079	Brine wells and plant	St. Clair
International Salt Co. Inc.	12841 Saunders St. Detroit, MI 48217	Underground mine	Wayne
Morton Norwich Products Inc., a Div. of Morton Salt Co.	110 North Wacker Dr. Chicago, IL 60606	Brine wells and plants	Manistee and St. Clair
Sand and gravel:			
Construction:			
American Aggregates Corp.	Drawer 160 Greenville, OH 45331	Surface pits and stational plants	Kalamazoo, Livingston,
Blount Inc.	Box 1468 Saginaw, MI 48605	Surface pits and plants	Oakland and Osceola
Bill Smith Sand and Gravel Inc.	Box 23 Otsego, MI 49078	Surface pits and plants	Allegan, Barry Huron, Kalamazoo Kent, Van Buren
Medusa Aggregates Co., a Subsidiary of Crane Co.	3135 Trabue Rd. Columbus, OH	Surface pit and stationary plant	Oakland
Whittaker & Gooding Co.	5300 Cherry Hill Rd. Ypsilanti, MI 48197	Surface pits and stationary plants	Washtenaw and Lapeer

TABLE XIII-15. PRINCIPAL MINERAL PRODUCERS IN MICHIGAN: 1982 (cont.)

Commodity and company	Address	Type of activity	County
Sand:			
Industrial:			
Nugent Sand Co. Inc.	Box 1209 Muskegon, MI 49433	Surface pits and plant	Muskegon
Ottawa Silica Co. Michigan Silica Div.	Box 100 Rockwood, MI 48173	Surface pit and stationary plant	Wayne
Sand Products Corp.	2489 1st National Bldg. Detroit, MI 48226	Surface pits and stationary plants	Oceana
Sargent Sand Co.	2840 Bay Rd. Saginaw, MI 48608	Surface pits and stationary plants	Bay, Mason, Saginaw, Wexford
Slag:			
Edward C. Levy Co.	8800 Dix Ave. Detroit, MI 48209	Plant	Wayne
Stone:			
Limestone:			
Drummond Dolomite Inc., Div. of Bethelhem Steel Corp.	Martin Tower Bethlehem, PA 18016	Quarry and plant	Chippewa
Inland Lime & Stone Co. Div. of Inland Steel Co.	Gulliver, MI 49840	Quarries and plants	Mackinac and Schoolcraft
Presque Isle Corp.	Box 426 Alpena, MI 49707	Quarry and plant	Presque Isle
United States Steel Corp., Michigan Limestone Operations	Rogers City, MI 49779	Quarries and plants	Mackinac and Presque Isle
Marl:			
Kevin D. Brenner	Route 1 Hopkins, MI 49328	Quarry	Allegan
Sandstone:			
Jude Stone Quarry Co.	338 Austin Rd. Napoleon, MI 49261	Quarry	Jackson

SOURCE: U. S. Bureau of Mines, Minerals Yearbook, 1983.

a. Also clay and shale.

b. Also stone

c. Also silver.

d. Also iron oxide pigments

e. Includes bromine, bromine compounds, calcium compounds, iodine, and magnesium compounds.

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TABLE XIV-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF PRODUCTION WORKERS IN MICHIGAN AND UNITED STATES ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS CONTRACT CONSTRUCTION, SUBDIVIDING, OR DEVELOPING: 1956-1984

	Michigan				United States			
	Employment	Weekly		Hourly	Employment	Weekly		Hourly
Year	(000)	Hours	Earnings	earnings	(000)	Hours	Earnings	earnings
1956	115.5	38.5	114.48	2.98	3,039	37.5	96.38	2.57
1957	109.1	37.0	116.85	3.16	2,962	37.0	100.27	2.71
1958	95.3	36.9	123.02	3.33	2,817	36.8	103.78	2.82
1959	97.7	37.9	131.06	3.46	3,004	37.0	108.41	2.93
1960	98.6	37.5	131.03	3.49	2,926	36.7	112.67	3.07
1961	92.6	37.8	132.98	3.52	2,859	36.9	118.08	3.20
1962	89.2	34.9	134.37	3.85	2,948	37.0	122.47	3.31
1963	95.4	35.5	141.89	4.00	3,010	37.3	127.19	3.41
1964	101.0	35.3	145.79	4.13	3,097	37.2	132.06	3.55
1965	112.7	39.7	178.09	4.49	3,232	37.4	138.38	3.70
1966	116.9	39.4	188.77	4.79	3,317	37.6	146.26	3.89
1967	121.8	40.9	202.46	4.95	3,248	37.7	154.95	4.11
1968	109.3	39.2	211.33	5.39	3,350	37.3	164.49	4.41
1969	130.5	38.9	246.70	6.34	3,575	37.9	181.54	4.79
1970	118.5	37.2	257.09	6.91	3,588	37.3	195.45	5.24
1971	120.5	36.3	275.92	7.60	3,704	37.2	211.67	5.69
1972	127.5	36.5	290.37	7.96	3,889	36.5	221.19	6.06
1973	131.4	36.8	306.62	8.33	4,097	36.8	235.89	6.41
1974	125.8	36.5	319.99	8.76	4,020	36.6	249.25	6.81
1975	106.3	36.6	338.18	9.24	3,525	36.4	266.08	7.31
1976	110.0	36.9	362.90	9.84	3,576	36.8	283.73	7.71
1977	122.8	36.5	384.05	10.52	3,851	36.5	295.65	8.10
1978	138.8	38.0	429.92	11.31	4,229	36.8	318.69	8.66
1979	139.5	37.6	444.66	11.83	4,463	37.0	342.99	9.27
1980	116.8	36.2	457.35	12.63	4,346	37.0	367.78	9.94
1981	106.8	36.5	502.27	13.75	4,188	36.9	399.26	10.82
1982	89.5	36.0	518.15	14.37	3,905	36.7	426.82	11.63
1983	86.5	36.4	526.89	14.47	3,948	37.1	442.97	11.94
1984	89.2	37.5	544.87	14.53	4,345	37.7	456.92	12.12

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: monthly), March 1985, Tables B-1 and C-1; and Supplement to Employment and Earnings (Washington, D.C.: June, 1985).

TABLE XIV-2. SUMMARY STATISTICS FOR MICHIGAN ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS CONTRACT CONSTRUCTION, SUBDIVIDING, AND DEVELOPING: 1972, 1977, AND 1982

Item	1972	1977	1982
Proprietors and working partners			
Total	28,778	34,221	34,312
In establishments with payroll	10,423	9,199	4,491
Total receipts, establishments without payroll ($000)	344,525	651,641	839,520
Establishments with payroll			
Number:			
With 1 - 9 employees	13,537	13,623	11,926
With 10-49 employees	2,489	2,419	1,782
With 50-99 employees	253	206	166
With 100 employees or more	125	105	59
Total	16,404	16,354	13,953
Number of employees:			
Mid-March	107,609	102,460	n.a.
Mid-May	130,655	133,427	n.a.
Mid-August	146,165	143,109	n.a.
Mid-November	131,886	133,332	n.a.
Average	130,828	128,198	n.a.
Payroll, entire year ($000)	1,527,560	1,923,025	2,178,928
Construction workers:			
Mid-March	84,603	83,053	70,197
Mid-May	106,659	112,002	85,322
Mid-August	121,437	122,138	92,422
Mid-November	107,387	112,054	82,881
Average	106,685	107,420	84,331
Payroll, entire year ($000)	1,220,662	1,537,235	1,663,174
Total selected payments ($000)	3,231,495	4,326,389	5,102,570
Materials, components, and supplies ($000)	1,654,576	2,248,550	2,115,457
Construction work subcontracted to others ($000)	1,576,919	1,941,319	2,816,275
Total receipts ($000)	5,961,230	7,759,714	9,301,645
Total construction receipts ($000)	5,746,253	7,549,535	8,991,253
Receipts for work subcontracted in from others ($000)	1,278,948	1,852,362	1,794,525
Other business receipts and land receipts ($000)	214,977	210,179	310,392
Net construction receipts ($000)	4,169,334	5,608,217	6,174,978
Value added in construction ($000)	2,615,296	3,378,784	4,182,301

SOURCE: Bureau of the Census, U.S. Census of Construction Industries, 1982, Area Series, East North Central States (Washington, D.C.: 1985), CC82-A-3, Tables 4 and 7; and similar documents for previous years.
n.a.: Data not available.

TABLE XIV-3. SUMMARY STATISTICS FOR UNITED STATES ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS CONTRACT CONSTRUCTION, SUBDIVIDING, AND DEVELOPING: 1972, 1977, AND 1982

Item	1972	1977	1982
Number of establishments with payroll:			
With 1 - 9 employees	351,494	391,345	370,274
With 10-49 employees	73,937	77,692	75,161
With 50-99 employees	7,991	7,041	7,090
With 100 employees or more	4,519	3,936	4,175
Total	437,941	480,014	456,701
Proprietors and working partners:			
Total	748,253	1,013,961	1,089,667
In establishments with payroll	274,434	279,309	158,821
Total receipts, establishments without payroll ($000)	8,608,039	20,150,970	40,908,315
Establishments with payroll			
Number of employees:			
Mid-March	3,668,194	3,782,235	n.a.
Mid-May	4,077,149	4,371,767	n.a.
Mid-August	4,475,893	4,585,861	n.a.
Mid-November	4,179,628	4,336,522	n.a.
Average	4,145,779	4,272,659	n.a.
Payroll, entire year ($000)	40,004,782	54,980,063	78,665,661
Construction workers:			
Mid-March	3,034,864	3,104,164	3,176,450
Mid-May	3,424,013	3,648,751	3,473,450
Mid-August	3,800,426	3,872,029	3,611,601
Mid-November	3,509,774	3,623,655	3,372,635
Average	3,486,592	3,565,469	3,453,239
Payroll, entire year ($000)	32,187,130	43,112,339	60,174,654
Total selected payments ($000)	84,623,758	112,110,369	230,224,641
Materials, components, and supplies ($000)	46,426,441	67,983,316	90,248,568
Construction work subcontracted to others ($000)	38,199,317	50,328,020	78,911,067
Total receipts ($000)	155,849,652	224,664,938	324,512,432
Total construction receipts ($000)	149,429,496	214,844,319	312,178,494
Receipts for work subcontracted in from others ($000)	30,857,137	49,806,349	69,838,064
Other business receipts and land receipts ($000)	6,420,156	9,820,620	12,333,937
Net construction receipts ($000)	111,232,179	164,516,299	233,267,426
Value added in construction ($000)	68,197,327	98,863,653	145,965,137

SOURCE: Bureau of the Census, U.S. Census of Construction Industries, 1982, U.S. Summary (Washington, D.C.: 1985), CC82-A-10, Tables 1, 4, and 7; and similar documents for previous years.

n.a.: Data not available.

TABLE XIV-4. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS CONTRACT CONSTRUCTION, SUBDIVIDING, AND DEVELOPING AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

	Percentage			Percentage	
County	1973	1983	County	1973	1983
Midland	7.35	15.15	Macomb	5.53	3.28
Montmorency	12.75	13.54	Menominee	5.08	3.25
St. Clair	5.58	12.56	Isabella	5.37	3.17
Mackinac	(D)	10.99	Manistee	4.88	3.17
Kalkaska	16.75	9.88	Alpena	5.95	3.16
Alcona	12.99	9.86	Otsego	(D)	3.15
Benzie	12.76	9.01	Marquette	6.78	3.11
Van Buren	9.82	8.69	Delta	4.45	3.06
Leelanau	12.25	7.98	Iosco	4.25	2.87
Dickinson	13.34	7.90	Gogebic	8.87	2.86
Iron	17.23	7.76	Calhoun	3.43	2.74
Cheboygan	9.65	7.70	Montcalm	3.58	2.68
Missaukee	10.74	7.06	Mecosta	6.05	2.60
Emmet	11.14	6.52	Sanilac	3.59	2.60
Clare	6.81	6.50	Saginaw	4.37	2.47
Baraga	3.93	6.28	Allegan	4.94	2.47
Oscoda	9.59	6.21	Barry	3.66	2.41
Gladwin	8.56	6.10	Tuscola	3.72	2.37
Charlevoix	6.57	5.29	Ontonagon	1.33	2.33
Houghton	9.86	5.23	St. Joseph	4.31	2.30
Ogemaw	6.52	4.91	Shiawassee	3.92	2.28
Grand Traverse	10.41	4.73	Wayne	4.18	2.26
Chippewa	4.35	4.64	Newaygo	3.91	2.21
Oceana	3.10	4.52	Arenac	2.49	2.19
Mason	7.23	4.49	Jackson	5.30	2.17
Livingston	8.34	4.36	Ingham	5.57	2.15
Antrim	(D)	4.28	Genesee	3.88	2.11
Lake	(D)	4.25	Ionia	3.84	2.01
Kent	6.72	4.21	Schoolcraft	3.64	2.00
Clinton	8.68	4.19	Gratiot	3.68	1.97
Muskegon	6.10	4.10	Presque Isle	2.93	1.97
Osceola	2.74	4.00	Alger	2.47	1.94
Eaton	5.44	3.98	Hillsdale	3.16	1.91
Oakland	8.74	3.80	Cass	(D)	1.72
Berrien	4.18	3.73	Lenawee	3.00	1.70
Ottawa	6.32	3.70	Wexford	8.16	1.65
Roscommon	5.25	3.60	Branch	3.22	1.60
Crawford	5.51	3.60	Luce	1.43	1.24
Washtenaw	4.11	3.53	Keweenaw	(D)	(D)
Lapeer	4.34	3.53	Monroe	6.82	(D)
Bay	5.85	3.51			
Kalamazoo	6.28	3.46	Michigan	5.28	3.34
Huron	3.32	3.34	United States	6.37	5.27

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XIV-5. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS CONTRACT CONSTRUCTION, SUBDIVIDING, AND DEVELOPING: 1982-1983

	Percentage change			Percentage change	
County	1973-1983	1982-1983	County	1973-1983	1982-1983
Lake	(D)	34	Mecosta	-12	9
Manistee	40	31	Muskegon	22	6
Iosco	23	30	Antrim	(D)	6
Clare	102	29	Oceana	164	6
Montmorency	52	28	Macomb	8	6
Lapeer	61	27	Kent	43	5
Presque Isle	18	27	Roscommon	48	5
Alger	43	26	Chippewa	30	4
Iron	-1	25	Lenawee	-15	4
Mackinac	(D)	24	Hillsdale	8	4
Eaton	41	23	Calhoun	38	3
Osceola	174	22	St. Clair	370	3
Gladwin	40	20	Marquette	-7	3
Newaygo	11	19	Grand Traverse	25	2
Missaukee	4	19	Benzie	39	2
Cass	(D)	18	Ionia	-7	2
Charlevoix	66	18	Bay	8	2
Arenac	65	17	Washtenaw	109	1
Montcalm	75	16	Cheboygan	53	0
Wexford	-54	15	Delta	40	0
Alcona	31	14	Wayne	-19	-1
Branch	-6	14	Luce	98	-2
Gratiot	-10	14	St. Joseph	1	-2
Van Buren	54	14	Huron	56	-3
Tuscola	6	13	Kalamazoo	28	-3
Baraga	151	13	Saginaw	1	-4
Barry	16	13	Crawford	39	-5
Leelanau	8	13	Oakland	1	-6
Houghton	14	13	Ingham	-11	-6
Livingston	31	12	Mason	13	-9
Schoolcraft	13	12	Dickinson	25	-11
Ogemaw	64	12	Isabella	39	-11
Clinton	4	12	Berrien	40	-12
Emmet	26	11	Kalkaska	167	-12
Menominee	33	11	Midland	378	-15
Allegan	2	11	Jackson	-32	-18
Oscoda	3	11	Gogebic	-50	-31
Sanilac	2	11	Ontonagon	50	-33
Alpena	-4	10	Keweenaw	(D)	(D)
Ottawa	43	10	Monroe	(D)	(D)
Shiawassee	-1	10			
Otsego	(D)	10	Michigan	17	0
Genesee	6	10	United States	92	6

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.
(D) Witheld to avoid disclosing data for individual companies.

TABLE XIV-6. NUMBER OF RESIDENTIAL AND NONRESIDENTIAL UNITS AUTHORIZED IN MICHIGAN PERMIT ISSUING PLACES, BY CATEGORY: 1979-1983 AND PRELIMINARY 1984

Category	Number of units					
	1979	1980	1981	1982	1983	1984
One-family houses	33,926	17,870	11,595	8,288	15,219	16,266
Two-family buildings	1,046	780	454	248	406	396
Three- & four-family buildings	1,522	999	874	432	878	1,391
Five- or more family buildings	12,715	9,327	5,994	5,409	5,180	7,950
Total	49,209	28,976	18,917	14,377	21,683	26,003
Mobile homes (house trailers)[a]	5,572	4,768	4,922	4,427	4,613	4,455
Transient hotels, motels, tourist courts and cabins	2,204	1,629	724	859	1,018	1,729
Other non-housekeeping shelters	205	123	76	27	91	39
Amusement & recreational bldgs.	175	125	133	146	133	102
Churches & other religious bldgs.	202	142	126	137	113	83
Industrial buildings	1,450	789	634	479	630	760
Parking garages (open to gen'l. public)	246	320	199	16	17	37
Residential garages & carports	17,896	13,241	13,271	13,357	14,626	14,440
Service stations & repair garages	141	118	117	104	99	143
Hospitals & other inst'l. bldgs.	77	42	42	29	47	44
Office, bank, & professional bldgs.	739	542	459	310	438	488
Public works & utilities bldgs.	123	83	152	128	96	82
Schools & other educational bldgs.	66	42	39	39	42	50
Stores & other mercantile bldgs.	1,509	934	787	620	776	1,019
Other nonresidential buildings	6,756	5,734	5,882	5,648	6,022	6,032
Structures other than buildings	5,505	5,149	5,281	3,881	4,526	4,540
Additions, alterations, & conversions						
Housekeeping residential buildings	56,519	50,793	52,398	42,583	45,158	42,580
All other buildings & structures	12,805	12,714	12,511	11,941	13,519	13,040

SOURCE: Bureau of the Census, special release.

a. Includes only house trailers for which building permits are issued.

TABLE XIV-7. VALUATION OF RESIDENTIAL AND NONRESIDENTIAL UNITS AUTHORIZED IN MICHIGAN PERMIT ISSUING PLACES, BY CATEGORY: 1979-1983 AND PRELIMINARY 1984

(In millions of dollars)

Category	1979	1980	1981	1982	1983	1984
One family houses	1,552.1	873.8	579.5	393.6	829.5	968.1
Two-family buildings	29.8	25.1	15.5	8.8	14.6	15.4
Three-and four-family buildings	37.0	31.1	26.9	13.6	31.0	52.2
Five- or more family buildings	294.3	281.0	234.1	199.9	140.9	234.0
Total	1,899.9	1,164.1	821.8	593.2	1,015.9	1,269.7
Mobile homes (house trailers)[a]	34.0	29.8	37.0	30.8	35.3	36.5
Transient hotels, motels, tourist courts and cabins	43.1	51.8	19.6	8.6	12.7	83.5
Other non-housekeeping shelters	1.6	.9	.6	.3	1.6	.8
Amusement and recreational buildings	59.3	11.9	21.9	17.8	12.0	15.7
Churches and other religious buildings	46.4	30.1	25.0	30.5	22.3	17.6
Industrial buildings	528.1	322.1	366.9	312.4	158.2	314.4
Parking garages (open to general public)	19.2	15.3	9.8	9.3	3.2	16.6
Residential garages and carports	67.2	53.0	56.8	56.3	72.9	65.2
Service stations and repair garages	5.2	4.8	4.4	5.5	6.2	11.6
Hospitals and other institutional buildings	62.7	51.9	71.6	34.6	53.0	70.9
Office, bank, and professional buildings	222.6	260.8	211.9	121.0	209.5	324.4
Public works and utilities buildings	21.7	74.0	33.2	15.5	11.0	20.1
Schools and other educational buildings	11.7	37.9	12.9	5.9	2.5	78.4
Stores and other mercantile buildings	296.3	158.1	149.0	72.3	117.2	164.0
Other nonresidential buildings	54.6	51.3	43.3	44.5	52.5	60.3
Structures other than buildings	30.8	23.9	22.6	21.9	21.7	32.2
Additions, alterations, & conversions						
Housekeeping residential buildings	233.1	240.9	235.1	204.8	266.3	246.5
All other buildings and structures	189.1	537.3	412.7	349.9	432.7	549.9

SOURCE: Bureau of the Census, special release.

a. Includes only house trailers for which building permits are issued.

TABLE XIV-8. NUMBER AND VALUATION OF NEW HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN: 1974-1983

Year		Privately owned					Publicly owned (contract awards)
		In structures with					
		1 unit	2 units	3 and 4 units	5 units or more	Total	
1974	No. of housing units	26,793	864	728	15,806	44,191	100
	Valuation ($000)	714,199	13,759	11,192	227,254	966,405	2,360
1975	No. of housing units	26,885	598	524	8,762	36,769	211
	Valuation ($000)	792,694	10,550	7,633	130,582	941,459	3,903
1976	No. of housing units	33,093	906	729	11,167	45,893	--
	Valuation ($000)	1,059,841	17,059	13,592	173,427	1,263,919	--
1977	No. of housing units	42,265	856	1,000	14,936	59,057	--
	Valuation ($000)	1,516,811	17,530	21,786	256,438	1,812,567	--
1978	No. of housing units	43,323	1,052	1,223	15,412	61,010	--
	Valuation ($000)	1,758,970	23,820	27,362	294,264	2,104,418	--
1979	No. of housing units	33,926	1,046	1,522	12,715	49,209	48
	Valuation ($000)	1,552,062	29,889	36,971	280,931	1,899,854	2,518
1980	No. of housing units	17,870	780	999	9,327	28,976	852
	Valuation ($000)	873,789	25,091	31,094	234,168	1,164,142	--
1981	No. of housing units	11,449	450	874	5,994	18,767	305
	Valuation ($000)	574,559	15,501	26,904	199,928	816,892	--
1982	No. of housing units	8,113	246	432	5,385	14,276	100
	Valuation ($000)	388,161	8,655	13,625	176,509	586,950	--
1983	No. of housing units	14,972	404	867	5,180	21,423	215
	Valuation ($000)	820,796	14,603	30,141	140,867	1,006,408	--

SOURCE: Bureau of Census, Construction Reports, Housing Units Authorized by Building Permits and Public Contracts, 1974 through 1983 (Washington, D.C.: annually), Table 2.

TABLE XIV-9. NUMBER OF NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN STANDARD METROPOLITAN STATISTICAL AREAS: 1976-1983

SMSA	Year	In structures with 1 unit	2 units	3 and 4 units	5 units or more	Total
Ann Arbor	1976	821	4	0	280	1,105
	1977	1,266	18	0	386	1,670
	1978	1,460	16	0	914	2,390
	1979	1,078	30	23	171	1,302
	1980	453	22	4	442	921
	1981	245	26	-	-	271
	1982	142	8	4	60	214
	1983	327	4	8	6	345
Battle Creek	1976	651	10	0	300	961
	1977	554	4	20	267	845
	1978	534	2	44	201	781
	1979	497	18	70	246	831
	1980	273	10	0	409	692
	1981	207	4	8	-	219
	1982	170	0	0	6	176
	1983	264	2	0	24	290
Bay City	1976	458	2	12	350	822
	1977	525	2	0	0	527
	1978	494	6	0	0	500
	1979	309	10	27	0	346
	1980	169	0	0	5	174
	1981	87	0	0	0	87
	1982	53	2	0	16	71
	1983	97	4	8	0	109
Detroit	1976	13,070	80	300	4,764	18,214
	1977	18,239	106	471	5,895	24,711
	1978	18,625	100	628	7,056	26,409
	1979	13,645	208	648	5,554	20,050
	1980	5,660	108	465	3,459	9,692
	1981	2,891	56	116	2,397	5,460
	1982	1,979	36	121	2,467	4,603
	1983	5,433	104	328	2,297	8,162
Flint	1976	1,447	8	8	398	1,861
	1977	2,067	8	60	1,147	3,282
	1978	2,192	12	19	1,054	3,277
	1979	1,577	32	71	601	2,281
	1980	873	14	16	341	1,244
	1981	465	14	15	137	631
	1982	299	6	0	48	353
	1983	459	6	16	253	734
Grand Rapids	1976	2,325	274	65	1,147	3,811
	1977	2,775	280	58	1,450	4,563
	1978	3,106	438	115	2,173	5,832
	1979	2,554	302	174	1,093	4,123
	1980	1,701	250	58	618	2,627
	1981	1,209	124	194	382	1,909
	1982	912	64	59	511	1,546
	1983	1,795	122	251	491	2,659

TABLE XIV-9. NUMBER OF NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN STANDARD METROPOLITAN STATISTICAL AREAS: 1976-1983 (cont.)

		In structures with				
SMSA	Year	1 unit	2 units	3 and 4 units	5 units or more	Total
Jackson	1976	612	36	18	250	916
	1977	544	0	3	630	1,177
	1978	529	6	0	128	663
	1979	615	10	7	139	771
	1980	219	6	--	48	273
	1981	163	2	16	--	181
	1982	100	4	8	243	355
	1983	133	0	21	24	178
Kalamazoo Portage	1976	937	34	75	926	1,972
	1977	1,271	18	154	1,197	2,640
	1978	1,117	22	111	424	1,674
	1979	996	10	112	750	1,838
	1980	634	34	79	901	1,648
	1981	420	48	151	803	1,414
	1982	249	10	55	118	432
	1983	413	16	63	420	912
Lansing	1376	1,620	136	55	698	2,509
	1977	2,144	100	78	1,478	3,800
	1978	2,013	138	130	1,174	3,455
	1979	2,237	122	190	1,437	3,986
	1980	1,302	78	92	734	2,206
	1981	725	58	154	734	1,671
	1982	480	18	18	256	772
	1983	940	12	60	200	1,212
Muskegon-Muskegon Heights-Norton Shores	1976	662	36	24	441	1,163
	1977	747	6	0	020	873
	1978	852	12	0	309	1,173
	1979	620	10	12	32	674
	1980	405	15	--	384	803
	1981	248	30	36	48	362
	1982	216	0	0	107	323
	1983	239	4	8	41	292
Saginaw	1976	776	122	8	135	1,041
	1977	875	112	36	320	1,343
	1978	955	104	16	176	1,251
	1979	708	146	0	396	1,250
	1980	315	48	120	44	527
	1981	158	16	--	64	238
	1982	104	4	0	144	252
	1983	130	14	0	66	210

SOURCE: Bureau of the Census, Housing Units Authorized by Building Permits and Public Contracts, 1976 through 1983 (Washington, D.C.: annually), Table 3.

TABLE XIV-10. VALUATION OF NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN STANDARD METROPOLITAN STATISTICAL AREAS: 1976-1983

(In thousands of dollars)

SMSA	Year	In structures with 1 unit	2 units	3 and 4 units	5 units or more	Total
Ann Arbor	1976	28,613	58	0	3,507	32,179
	1977	48,267	357	0	7,125	55,749
	1978	65,889	391	0	14,960	81,241
	1979	59,770	1,222	1,039	3,341	65,378
	1980	31,342	939	157	12,852	45,290
	1981	15,337	722	--	--	16,059
	1982	12,733	388	240	5,465	18,825
	1983	28,562	140	500	154	29,355
Battle Creek	1976	18,812	218	0	3,140	22,170
	1977	17,257	85	364	3,112	20,818
	1978	17,561	72	1,981	2,230	21,843
	1979	18,657	585	1,520	3,076	23,839
	1980	11,720	292	0	8,254	20,266
	1981	9,252	88	180	--	9,520
	1982	5,843	--	--	45	5,888
	1983	10,538	80	0	147	10,765
Bay City	1976	12,122	30	185	3,299	15,636
	1977	16,049	25	0	0	16,074
	1978	17,251	75	0	0	17,326
	1979	12,774	282	1,119	0	14,175
	1980	6,739	0	0	363	7,103
	1981	3,391	--	--	--	3,391
	1982	1,929	38	--	350	2,317
	1983	4,048	80	365	0	4,493
Detroit	1976	487,264	1,390	6,662	90,723	586,039
	1977	754,541	2,261	11,286	127,298	895,387
	1978	877,358	2,337	14,434	156,342	1,050,469
	1979	730,391	6,134	15,015	138,104	889,645
	1980	344,559	4,225	16,289	90,887	455,960
	1981	183,182	2,140	6,154	102,633	294,109
	1982	118,077	1,725	4,281	102,702	226,784
	1983	364,248	3,129	12,253	67,623	447,253
Flint	1976	40,549	248	96	6,409	47,302
	1977	65,605	283	1,169	12,955	80,011
	1979	66,107	1,156	1,936	11,349	80,551
	1980	35,806	375	571	10,020	46,772
	1981	22,321	407	449	2,602	25,780
	1982	15,224	200	--	1,045	16,469
	1983	21,722	239	547	6,194	28,701
Grand Rapids	1976	74,150	4,848	1,129	14,664	94,791
	1977	99,326	5,432	905	17,443	123,106
	1978	123,887	9,754	2,325	33,386	169,352
	1979	120,300	8,496	3,865	22,277	154,937
	1980	83,909	8,486	1,477	14,723	108,594
	1981	58,781	4,077	4,818	11,121	78,796
	1982	47,260	2,162	1,801	13,308	64,531
	1983	96,983	5,421	7,908	11,294	121,605

TABLE XIV-10. VALUATION OF NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN STANDARD METROPOLITAN STATISTICAL AREAS: 1976-1983 (cont.)

(In thousands of dollars)

SMSA	Year	In structures with 1 unit	2 units	3 and 4 units	5 units or more	Total
Jackson	1976	14,511	476	272	3,738	18,997
	1977	15,648	0	60	7,515	23,223
	1978	17,560	114	0	1,554	19,228
	1979	21,290	186	191	2,566	24,232
	1980	8,399	188	--	959	9,546
	1981	7,599	58	576	--	8,233
	1982	4,105	208	293	5,146	9,752
	1983	5,762	0	1,060	400	7,223
Kalamazoo-Portage	1976	32,420	708	1,342	13,346	47,816
	1977	45,280	472	2,762	20,318	68,831
	1978	47,307	403	1,978	6,851	56,540
	1979	46,021	293	2,329	12,568	61,211
	1980	32,597	1,064	2,509	21,916	58,086
	1981	24,407	2,166	5,157	26,052	57,781
	1982	14,084	383	1,588	3,042	19,097
	1983	23,404	915	1,895	12,114	38,327
Lansing-E. Lansing	1976	52,967	3,563	1,222	7,996	65,749
	1977	74,916	2,862	2,668	22,066	102,512
	1978	80,384	4,177	3,348	18,593	106,503
	1979	97,525	4,437	5,168	27,911	135,041
	1980	60,507	2,571	3,493	18,502	85,073
	1981	36,172	1,877	3,713	19,526	61,289
	1982	24,263	566	848	6,527	32,204
	1983	49,874	382	2,241	4,172	56,669
Muskegon-Muskegon Heights-Norton Shores	1976	16,471	431	360	4,745	22,008
	1977	21,762	95	0	1,000	22,857
	1978	26,935	238	0	5,768	32,940
	1979	23,650	240	175	680	24,745
	1980	17,796	388	0	10,437	28,622
	1981	10,650	890	464	960	12,964
	1982	9,544	--	--	3,170	12,714
	1983	11,267	102	195	1,300	12,864
Saginaw	1976	24,027	2,081	108	1,330	27,546
	1977	29,251	1,927	293	6,039	37,510
	1978	35,896	1,946	299	2,139	40,280
	1979	29,803	3,844	0	7,669	41,316
	1981	7,162	539	--	1,234	8,936
	1982	4,531	135	--	2,650	7,315
	1983	6,290	584	0	1,250	8,124

SOURCE: Bureau of the Census, Construction Reports, *Housing Units Authorized by Building Permits and Public Contracts*, 1976 through 1983 (Washington, D.C.: annually), Table 3.

TABLE XIV-11. NUMBER OF NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN STANDARD METROPOLITAN STATISTICAL AREAS, INSIDE AND OUTSIDE OF CENTRAL CITIES: 1983

	In structures with				
SMSA	1 unit	2 units	3 and 4 units	5 units or more	Total
Ann Arbor	327	4	8	6	345
Ann Arbor	89	--	--	--	89
Outside central city	238	4	8	6	256
Battle Creek	264	2	--	24	290
Battle Creek	16	--	--	24	40
Outside central city	248	2	--	--	250
Bay City	97	4	8	--	109
Bay City	n.a.	n.a.	n.a.	n.a.	n.a.
Outside central city	97	4	8	--	109
Detroit	5,433	104	328	2,297	8,162
Detroit	11	--	--	306	317
Outside central city	5,422	104	328	1,991	7,845
Flint	459	6	16	253	734
Flint	100	--	--	152	252
Outside central city	359	6	16	101	482
Grand Rapids	1,795	122	251	491	2,659
Grand Rapids	142	18	45	59	264
Outside central city	1,653	104	206	432	2,395
Jackson	133	--	21	24	178
Jackson	3	--	--	--	3
Outside central city	130	--	21	24	175
Kalamazoo-Portage	413	16	63	420	912
Kalamazoo	19	10	--	254	283
Portage	88	--	18	102	208
Outside central cities	306	6	45	64	421
Lansing-East Lansing	940	12	60	200	1,212
Lansing	14	--	--	--	14
East Lansing	114	2	16	115	247
Outside central cities	812	10	44	85	951
Muskegon-Muskegon Heights-Norton Shores	239	4	8	41	292
Muskegon	3	--	4	--	7
Muskegon Heights	--	2	--	--	2
Norton Shores	24	--	--	--	24
Outside central cities	212	2	4	41	259
Saginaw	130	14	--	66	210
Saginaw	4	--	--	42	46
Outside central city	126	14	--	24	164

SOURCE: Bureau of the Census, Construction Reports, Housing Units Authorized by Building Permits and Public Contracts: Annual 1983, (Washington, D.C.), Table 3.

TABLE XIV-12. ANNUAL CONSTRUCTION CONTRACT AWARDS IN MICHIGAN, 1967-1984, AND THE UNITED STATES: 1978-1984

(In thousands of dollars)

Year	Non-residential	Residential	Total building	Public works and utilities	Total construction
			Michigan		
1967	946,513	1,020,000	1,966,513	357,000	2,323,513
1968	912,849	1,029,581	1,942,430	407,537	2,349,967
1969	962,697	891,531	1,854,228	874,715	2,728,943
1970	955,592	942,760	1,898,352	1,052,245	2,950,597
1971	874,058	1,319,978	2,194,036	840,719	3,034,755
1972	1,010,891	1,596,633	2,607,524	842,780	3,450,304
1973	1,206,481	1,856,354	3,062,835	1,299,276	4,362,111
1974	1,355,623	1,314,147	2,669,770	791,628	3,461,398
1975	951,139	1,089,145	2,040,284	1,146,796	3,187,080
1976	1,115,512	1,470,420	2,585,932	590,478	3,176,410
1977	1,525,733	2,144,489	3,670,222	604,463	4,274,685
1978	1,752,267	2,469,130	4,221,397	1,821,304	6,042,701
1979	1,975,434	2,392,063	4,367,497	889,324	5,156,821
1980	1,970,299	1,535,367	3,505,655	667,944	4,173,610
1981	1,336,850	1,122,958	2,459,808	798,406	3,258,214
1982	1,149,956	856,444	2,006,400	481,218	2,487,618
1983	1,277,600	1,449,000	2,726,600	763,700	3,490,300
1984	2,049,200	1,909,500	3,958,700	966,500	4,925,200
			United States		
1978	45,045,834	74,949,473	119,995,307	39,934,701	159,930,008
1979	50,205,900	74,557,500	124,763,400	43,682,500	168,445,900
1980	52,491,400	63,667,700	116,159,100	32,233,700	148,392,800
1981	60,087,700	60,164,000	120,251,700	33,227,900	153,479,600
1982	59,207,500	58,076,300	117,283,800	37,335,600	154,619,400
1983	62,284,200	93,566,600	155,850,800	37,751,800	193,602,600
1984	73,225,700	100,762,600	173,988,300	35,872,500	209,860,800

SOURCE: F. W. Dodge Division of McGraw-Hill Information Systems Company, special release.

TABLE XIV-13. NONRESIDENTIAL AND RESIDENTIAL BUILDING AWARDS IN MICHIGAN METROPOLITAN STATISTICAL AREAS: 1983 AND 1984

(In thousands of dollars)

Area	Nonresidential 1983	Nonresidential 1984	Residential 1983	Residential 1984	Total 1983	Total 1984
Ann Arbor	140,700	130,200	33,300	70,000	174,000	200,200
Battle Creek	9,700	54,600[c]	20,000	24,600	29,700	79,200
Bay City	14,800	5,900	14,400	11,700	29,200	17,600
Detroit[a]	592,500	1,165,000	614,000	892,100	120,690	2,057,600
Flint	36,000	72,600	31,200	60,300	67,200	132,900
Grand Rapids	161,300	219,800	149,500	172,900	310,800	392,700
Jackson	17,500	15,800	17,400	10,400	34,900	26,200
Kalamazoo	43,000	45,300	36,200	40,800	79,200	86,100
Lansing-E. Lansing	83,500	84,500	76,800	102,200	160,300	186,700
Muskegon	9,000	14,100	20,400	25,300	29,400	39,400
Saginaw[b]-Midland	25,700	64,900	45,700	47,900	71,400	112,800
Toledo[a]	127,200	--	89,800	--	217,000	--
Michigan	1,277,600	2,049,200	1,449,000	1,909,500	2,726,600	3,958,700
United States	62,284,200	73,225,700	93,566,600	100,762,600	155,850,800	173,988,300

SOURCE: F. W. Dodge Division of McGraw-Hill Information Systems Company, special release.

[a] In 1984, Monroe County transferred from Toledo to Detroit MSA.

[b] Midland County was added to Saginaw MSA in 1984.

[c] March 1984, $30,000,000 office building Calhoun County.

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1982, 1983 AND 1984

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buidings	Value ($1000)
Alcona	1982	36	1,150	0	0	0	0	0	0
	1983	60	2,139	1	60	2	52	1	25
	1984	51	1,894	1	57	0	0	2	88
Alger	1982	32	455	0	0	0	0	4	102
	1983	30	5,209	0	0	0	0	4	217
	1984	31	510	0	0	0	0	3	45
Allegan	1982	247	7,747	18	1,158	1	17	9	312
	1983	326	11,094	13	775	3	587	13	670
	1984	326	12,910	22	1,304	4	867	16	681
Alpena	1982	53	1,635	0	0	0	0	4	184
	1983	39	1,212	1	40	0	0	2	127
	1984	42	1,196	2	1,015	1	92	4	462
Antrim	1982	161	5,701	1	110	0	0	2	1,106
	1983	197	8,594	1	350	0	0	0	0
	1984	225	12,745	3	164	0	0	0	0
Arenac	1982	38	1,058	0	0	0	0	0	0
	1983	39	1,118	0	0	0	0	0	0
	1984	5	187	0	0	0	0	0	0
Baraga	1982	16	248	0	0	0	0	0	0
	1983	46	736	3	74	1	49	1	110
	1984	15	362	4	546	0	0	3	157
Barry	1982	116	3,767	2	245	0	0	1	1
	1983	160	6,005	11	253	1	30	1	25
	1984	186	7,685	5	258	0	0	4	54
Bay	1982	75	2,481	5	1,189	5	503	3	117
	1983	116	4,847	5	895	1	99	9	6,276
	1984	138	5,380	11	2,353	8	309	5	123
Benzie	1982	84	2,399	0	0	0	0	0	0
	1983	101	3,361	0	0	1	80	0	0
	1984	83	3,252	0	0	0	0	0	0
Berrien	1982	221	6,161	9	4,253	12	2,649	12	975
	1983	312	11,671	9	1,210	4	3,750	10	532
	1984	198	10,728	19	2,469	7	1,384	21	1,990

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1982, 1983 AND 1984 (cont.)

County	Year	Residential		Industrial[a]		Offices[b]		Mercantile[c]	
		Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Branch	1982	48	1,457	0	0	0	0	0	0
	1983	95	2,749	1	64	1	59	3	141
	1984	39	1,205	1	29	0	0	3	182
Calhoun	1982	60	2,121	4	121	2	759	12	1,937
	1983	130	4,760	4	592	10	1,238	8	827
	1984	180	4,604	6	1,118	5	21,755	17	1,363
Cass	1982	95	3,230	5	451	0	0	5	91
	1983	58	2,512	8	298	0	0	6	859
	1984	114	4,243	11	573	0	0	4	91
Charlevoix	1982	134	4,866	0	0	1	117	2	373
	1983	112	4,639	0	0	1	136	1	500
	1984	148	5,602	0	0	0	0	0	0
Cheboygan	1982	62	3,063	9	3,355	1	729	1	198
	1983	149	6,091	1	350	0	0	1	198
	1984	75	3,945	0	0	1	704	9	1,776
Chippewa	1982	16	547	0	0	1	226	3	170
	1983	19	584	0	0	0	0	0	0
	1984	16	446	0	0	0	0	1	4
Clare	1982	59	2,458	2	745	2	1,271	4	399
	1983	94	2,924	0	0	1	704	1	189
	1984	61	2,373	0	0	1	571	4	756
Clinton	1982	113	4,838	1	13	0	0	5	360
	1983	150	7,529	2	117	2	275	8	357
	1984	191	11,004	2	23	0	0	15	562
Crawford	1982	52	1,871	1	80	1	28	2	57
	1983	88	3,172	1	49	2	297	5	1,381
	1984	53	1,642	20	11,330	1	30	6	229
Delta	1982	151	4,961	4	224	0	0	4	581
	1983	135	4,434	5	221	2	106	2	340
	1984	96	3,753	4	149	3	72	2	89
Dickinson	1982	43	2,007	3	150	0	0	4	778
	1983	77	3,027	4	1,170	1	100	2	454
	1984	80	3,317	0	0	0	0	0	0

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1982, 1983 AND 1984 (cont.)

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Eaton	1982	136	6,093	5	780	3	685	15	2,217
	1983	250	13,082	4	4,249	6	2,633	6	839
	1984	324	15,633	9	543	2	22	14	1,563
Emmet	1982	107	5,524	4	128	0	0	0	0
	1983	117	6,398	2	380	0	0	1	39
	1984	199	9,922	2	1,277	0	0	1	68
Genesee	1982	304	14,324	7	1,710	37	3,957	33	5,348
	1983	687	26,543	21	4,116	44	8,202	53	6,969
	1984	901	30,781	11	14,901	41	7,226	109	17,531
Gladwin	1982	88	4,383	0	0	4	2,918	2	268
	1983	126	5,837	1	350	2	1,409	2	387
	1984	182	7,865	0	0	3	1,341	3	599
Gogebic	1982	127	3,248	2	35	0	0	3	253
	1983	69	2,047	0	0	0	0	6	605
	1984	51	1,432	2	65	0	0	3	353
Grand Traverse	1982	282	10,601	6	497	6	753	12	1,676
	1983	431	19,637	10	489	6	768	16	832
	1984	613	24,373	15	2,524	11	1,732	25	2,139
Gratiot	1982	25	858	4	2,793	0	0	3	101
	1983	32	1,366	4	626	0	0	7	146
	1984	35	1,590	2	460	3	108	6	100
Hillsdale	1982	86	2,464	1	36	1	160	1	7
	1983	112	2,654	2	121	1	189	3	195
	1984	93	2,222	1	272	0	0	1	18
Houghton	1982	49	1,565	1	30	1	50	2	400
	1983	57	1,965	0	0	1	80	7	497
	1984	141	4,472	2	150	0	0	1	55
Huron	1982	84	2,697	7	737	2	40	1	16
	1983	180	5,147	3	1,300	6	984	11	1,691
	1984	203	5,533	8	695	2	168	4	318
Ingham	1982	408	17,778	6	4,147	16	17,595	33	2,383
	1983	707	32,591	7	499	18	9,757	35	4,594
	1984	937	41,694	15	3,078	12	11,987	45	5,305

XV. MANUFACTURING

The ranking of Michigan counties according to the relative importance of manufacturing (Table XV-10) was developed on the basis of personal income accounts and employment statistics prepared by the Bureau of Economic Analysis, U.S. Department of Commerce. Personal income is discussed in the narrative material introducing Chapter VI. By and large, the BEA income and employment statistics for manufacturing are consistent with the employment figures released by the Michigan Employment Security Commission since they are based on the same monthly reports from employers.

The production of motor vehicles is of special interest because of the great importance of this industry to Michigan. The Automobile Manufacturers Association publishes a wealth of information on the industry, and Automotive News and Ward's Communications, Inc., in Detroit are leading sources of regional statistics about the industry. R.L. Polk & Company, also in Detroit, compiles information about new car and truck sales and registrations. Some of these data are reproduced in chapter XVI.

Current Industrial Reports, published by the Bureau of the Census, contains current information about production and shipments of a great variety of manufactured items. A few of the series give details by states.

The American Iron and Steel Institute monitors monthly steel production in the United States and various centers. Its Annual Statistics Report and Iron and Steel Works Directory for the United States and Canada provide detailed information on the steel industry.

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TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1982, 1983 AND 1984 (cont.)

County	Year	Residential		Industrial[a]		Offices[b]		Mercantile[c]	
		Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Ionia	1982	115	3,495	4	219	4	215	17	287
	1983	105	3,467	10	1,065	1	53	12	166
	1984	141	4,661	6	330	1	85	17	521
Iosco	1982	93	2,252	6	183	1	8	3	99
	1983	126	3,747	5	151	2	24	6	973
	1984	141	4,469	0	0	2	392	13	369
Iron	1982	16	422	0	0	1	40	0	0
	1983	24	801	1	195	1	400	1	66
	1984	40	1,187	3	637	1	10	2	445
Isabella	1982	168	4,855	4	112	1	50	7	411
	1983	172	6,172	4	177	3	111	13	550
	1984	258	9,463	5	568	3	185	9	864
Jackson	1982	361	9,931	7	188	11	571	14	460
	1983	186	7,576	10	956	8	875	11	296
	1984	225	8,492	11	677	3	121	14	1,549
Kalamazoo	1982	371	16,497	9	26,004	21	3,212	32	3,314
	1983	715	30,514	28	3,954	16	3,908	26	3,073
	1984	653	31,667	27	9,634	19	3,592	28	2,919
Kalkaska	1982	81	2,020	4	82	2	158	2	233
	1983	65	2,019	8	149	4	314	2	43
	1984	89	2,642	10	419	2	27	7	186
Kent	1982	1,149	47,585	34	46,704	15	19,469	25	4,847
	1983	1,877	86,670	63	12,330	33	8,676	46	7,029
	1984	2,976	117,397	83	23,021	35	22,014	51	12,760
Keweenaw	1982	33	875	0	0	0	0	0	0
	1983	6	127	0	0	0	0	0	0
	1984	8	147	0	0	0	0	0	0
Lake	1982	65	2,733	0	0	0	0	0	0
	1983	44	2,009	0	0	0	0	0	0
	1984	51	2,661	0	0	0	0	0	0
Lapeer	1982	96	4,653	8	419	2	385	4	318
	1983	187	8,204	8	1,141	6	636	7	[illegible]
	1984	234	9,838	3	80	3	60	7	455

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1982, 1983 AND 1984 (cont.)

County	Year	Residential		Industrial[a]		Offices[b]		Mercantile[c]	
		Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Leelanau	1982	109	5,521	1	126	3	111	2	8
	1983	146	6,693	2	53	1	70	4	305
	1984	198	9,726	1	18	8	1,533	11	470
Lenawee	1982	61	2,122	6	442	4	143	15	544
	1983	99	3,739	7	508	4	247	7	241
	1984	205	5,640	9	602	5	798	19	457
Livingston	1982	129	8,250	13	2,280	4	720	4	669
	1983	302	15,654	5	1,354	8	1,614	10	1,487
	1984	417	20,500	12	3,612	5	870	6	2,142
Luce	1982	6	217	0	0	0	0	1	9
	1983	23	602	0	0	0	0	0	0
	1984	34	926	1	1,500	0	0	0	0
Mackinac	1982	42	1,024	4	188	2	82	5	101
	1983	65	1,905	2	73	1	275	4	367
	1984	93	2,343	2	145	1	150	4	307
Macomb	1982	934	624	26	7,946	15	4,017	35	5,596
	1983	2,292	93,291	64	36,993	39	7,351	62	14,415
	1984	2,838	129,925	92	48,884	32	6,760	92	25,184
Manistee	1982	66	1,604	2	65	0	0	0	0
	1983	65	2,237	3	38	1	300	1	18
	1984	66	2,681	6	366	0	0	1	13
Marquette	1982	104	2,368	1	7	2	237	5	210
	1983	97	3,114	0	0	0	0	13	862
	1984	111	3,871	1	234	12	1,373	0	0
Mason	1982	196	4,384	6	60	0	0	3	58
	1983	70	1,722	6	314	1	40	5	98
	1984	70	1,894	13	3,947	0	0	8	569
Mecosta	1982	93	3,527	2	17	1	62	4	358
	1983	117	5,209	1	60	2	270	2	176
	1984	148	6,814	1	18	0	0	0	0
Menominee	1982	56	1,377	1	4	0	0	1	20
	1983	55	1,527	3	281	0	0	5	371
	1984	63	2,465	5	281	2	236	2	175

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1982, 1983 AND 1984 (cont.)

County	Year	Residential		Industrial[a]		Offices[b]		Mercantile[c]	
		Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Midland	1982	166	8,177	3	99	1	729	4	127
	1983	320	18,512	5	608	3	482	8	781
	1984	327	21,835	5	540	8	3,534	19	1,045
Missaukee	1982	40	1,043	1	12	1	40	3	110
	1983	75	2,323	2	34	0	0	2	89
	1984	43	1,626	11	797	2	60	1	32
Monroe	1982	164	6,423	11	5,866	4	323	7	495
	1983	292	11,660	4	331	4	464	10	1,041
	1984	371	13,466	5	447	11	1,700	4	169
Montcalm	1982	159	99	6	580	1	97	7	209
	1983	160	6,786	8	5,939	4	191	3	507
	1984	147	5,528	8	1,442	8	981	8	1,307
Montmorency	1982	39	1,933	1	373	1	729	0	0
	1983	84	3,732	1	350	1	704	0	0
	1984	96	3,667	0	0	0	0	3	578
Muskegon	1982	205	8,035	18	5,271	4	177	3	312
	1983	239	10,297	13	954	6	633	9	830
	1984	315	14,741	23	3,646	9	1,177	26	3,332
Newaygo	1982	197	5,040	2	33	1	49	7	117
	1983	124	3,170	3	7,045	0	0	20	1,240
	1984	137	3,326	2	89	2	122	8	190
Oakland	1982	1,607	84,591	64	20,366	50	33,863	52	8,553
	1983	3,546	235,546	76	27,176	78	115,631	58	13,880
	1984	5,522	328,731	121	87,180	114	182,449	115	31,770
Oceana	1982	122	4,829	0	0	3	88	0	0
	1983	55	2,627	3	238	2	16	5	854
	1984	72	3,536	5	599	1	26	7	178
Ogemaw	1982	76	3,798	3	65	3	112	6	392
	1983	103	4,954	0	0	3	2,113	5	954
	1984	141	6,398	0	0	2	1,275	6	1,144
Ontonagon	1982	18	574	0	0	1	25	0	0
	1983	41	1,188	1	30	0	0	0	0
	1984	34	659	0	0	0	0	0	0

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1982, 1983 AND 1984 (cont.)

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Osceola	1982	47	1,230	2	646	0	0	4	227
	1983	88	2,818	4	188	0	0	5	54
	1984	91	2,953	9	1,937	1	170	2	21
Oscoda	1982	45	2,251	0	0	0	0	0	0
	1983	48	2,310	1	373	0	0	0	0
	1984	52	2,751	0	0	0	0	1	200
Otsego	1982	68	2,914	1	65	1	70	1	15
	1983	122	5,283	1	80	1	53	0	0
	1984	75	4,107	0	0	1	60	2	700
Ottawa	1982	397	16,946	26	3,714	7	462	29	1,534
	1983	782	34,935	33	6,872	10	2,544	21	5,440
	1984	1,023	45,817	37	15,176	10	1,468	36	4,674
Presque Isle	1982	102	3,182	0	0	0	0	1	100
	1983	130	5,448	0	0	0	0	0	0
	1984	49	2,722	0	0	0	0	1	120
Roscommon	1982	113	3,307	1	373	3	490	5	68
	1983	151	4,180	0	0	0	0	6	504
	1984	154	4,670	0	0	1	45	4	78
Saginaw	1982	254	7,385	3	287	4	707	21	2,779
	1983	213	8,239	12	959	8	1,318	24	2,628
	1984	265	11,199	15	979	8	1,488	13	2,402
St Clair	1982	182	7,029	14	1,510	9	782	9	526
	1983	282	12,605	12	962	12	2,401	13	756
	1984	283	11,871	15	1,940	8	1,806	22	1,117
St. Joseph	1982	140	4,792	7	674	2	344	7	487
	1983	124	4,884	12	552	2	160	5	1,345
	1984	113	5,263	7	2,017	3	792	9	1,546
Sanilac	1982	63	2,275	0	0	0	0	10	583
	1983	114	4,020	1	14	1	80	12	926
	1984	104	4,052	1	1,000	1	201	9	3,274
School-craft	1982	64	1,284	1	38	1	30	0	0
	1983	92	3,063	0	0	0	0	0	0
	1984	34	665	0	0	1	25	0	0

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1982, 1983 AND 1984 (cont.)

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Shiawassee	1982	52	2,280	5	461	0	0	0	0
	1983	51	2,343	4	89	0	0	2	9
	1984	96	4,242	0	0	2	110	2	129
Tuscola	1982	91	3,297	2	622	1	30	3	119
	1983	98	4,299	8	220	2	170	3	802
	1984	125	4,709	5	619	0	0	3	213
Van Buren	1982	75	3,109	2	239	1	100	3	36
	1983	211	8,031	2	137	2	77	7	505
	1984	206	9,436	5	518	1	49	5	626
Washtenaw	1982	215	18,875	17	3,807	6	7,042	10	1,938
	1983	345	29,355	18	7,436	13	14,950	4	1,789
	1984	738	43,493	29	18,225	36	19,561	7	1,248
Wayne	1982	1,664	87,445	39	159,040	20	12,811	63	14,056
	1983	1,565	82,450	52	19,188	37	10,783	91	21,482
	1984	1,986	137,169	80	53,252	60	50,064	143	31,952
Wexford	1982	58	1,693	5	263	0	0	4	564
	1983	89	2,782	0	0	1	32	1	56
	1984	65	1,708	5	271	2	141	5	50
MICHIGAN	1982	14,377	593,229	479	312,432	310	121,037	620	71,299
	1983	21,683	1,015,935	630	158,185	438	209,547	776	117,248
	1984	27,758	1,324,249	857	330,995	531	353,878	1,083	174,179

SOURCE: Bureau of the Census, special release.

a. Includes plants processing, producing, and assembling goods and materials together with affiliated buildings such as warehouses, garages, and administrative buildings. Newspaper and printing plants, central bakeries, laundry and dry cleaning plants, and ice plants fall within this definition.

b. Includes banks and professional buildings. Also the administration buildings of labor unions, chambers of commerce, and trade associations, and public administration buildings such as post offices, court houses, city halls, and federal offices.

c. Includes buildings used in buying, selling, distributing, and storing merchandise and materials or performing consumer services, that is, stores, auto and other showrooms, commercial warehouses, grain elevators, garages for storing commercial vehicles, restaurants, taverns, night clubs, bakery shops, laundry and dry cleaning shops, laundromats, frozen food lockers, beauty and barber shops, and animal hosptials.

TABLE XV-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF PRODUCTION WORKERS IN MICHIGAN AND THE UNITED STATES MANUFACTURING ESTABLISHMENTS: 1956-1984

	Michigan				United States			
	Employment	Weekly		Hourly	Employment	Weekly		Hourly
Year	(000)	Hours	Earnings	earnings	(000)	Hours	Earnings	earnings
1956	1,108.9	40.8	94.98	2.33	17,243	40.4	78.78	1.95
1957	2,083.8	40.0	97.64	2.44	17,174	39.8	81.19	2.04
1958	895.3	39.5	99.70	2.52	15,945	39.2	82.32	2.10
1959	961.0	40.9	108.71	2.66	16,675	40.3	88.26	2.19
1960	976.3	40.8	112.00	2.75	16,796	39.7	89.72	2.26
1961	887.3	40.1	112.32	2.80	16,326	39.8	92.34	2.32
1962	952.2	41.8	121.43	2.91	16,853	40.4	96.56	2.39
1963	989.6	42.5	128.27	3.02	16,995	40.5	99.23	2.45
1964	1,032.0	43.5	135.11	3.11	17,274	40.7	102.97	2.53
1965	1,112.4	44.6	143.79	3.22	18,062	41.2	107.53	2.61
1966	1,179.6	43.3	145.10	3.35	19,214	41.4	112.19	2.71
1967	1,148.8	42.0	145.78	3.47	19,447	40.6	114.49	2.82
1968	1,172.5	43.3	164.15	3.79	19,781	40.7	122.51	3.01
1969	1,203.8	42.0	166.78	3.97	20,167	40.6	129.51	3.19
1970	1,081.1	40.6	168.33	4.15	19,367	39.8	133.33	3.35
1971	1,059.2	41.0	188.19	4.59	18,623	39.9	142.44	3.57
1972	1,097.4	42.8	211.52	4.94	19,151	40.5	154.71	3.82
1973	1,178.8	43.4	228.63	5.27	20,154	40.7	166.46	4.09
1974	1,114.0	41.3	232.35	5.63	20,077	40.0	176.80	4.42
1975	983.7	40.8	250.76	6.15	18,323	39.5	190.79	4.83
1976	1,061.7	42.7	290.97	6.81	18,997	40.1	209.32	5.22
1977	1,128.4	43.3	326.79	7.55	19,682	40.3	228.90	5.68
1978	1,179.6	42.9	346.20	8.07	20,505	40.4	249.27	6.17
1979	1,160.2	41.2	360.25	8.74	21,040	40.2	269.34	6.70
1980	998.9	40.1	381.87	9.52	20,285	39.7	288.62	7.27
1981	979.0	40.5	426.27	10.53	20,170	39.8	318.00	7.99
1982	876.9	40.2	449.33	11.18	18,781	38.9	330.26	8.49
1983	880.5	42.5	494.02	11.62	18,434	40.1	354.08	8.83
1984	945.8	43.2	526.18	12.18	19,412	40.7	373.63	9.18

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings, (Washington, D.C.: Monthly), March 1985, Tables B-1 and C-1; and Supplement to Employment and Earnings (Washington, D.C.: June 1985).

TABLE XV-2. EARNINGS IN MANUFACTURING ESTABLISHMENTS LOCATED IN MICHIGAN, AND THE UNITED STATES BY MAJOR INDUSTRY GROUP: 1978 AND 1983

(In millions of dollars)

Industry group		1978[a]	1983[a]	Percentage change
Food & kindred products	Mich.	902	1,134	25.72
	U.S.	26,350	36,175	37.29
Textile mill products	Mich.	48	47	- 1.45
	U.S.	10,138	12,271	21.04
Apparel & other textile products	Mich.	433	458	5.56
	U.S.	12,049	14,859	23.32
Paper & allied products	Mich.	455	567	24.72
	U.S.	12,827	18,507	44.28
Printing and publishing	Mich.	527	734	39.16
	U.S.	17,782	28,392	59.67
Chemicals & allied products	Mich.	1,032	1,330	28.95
	U.S.	22,593	33,180	46.86
Petroleum and coal products	Mich.	80	97	22.09
	U.S.	6,218	9,525	53.18
Rubber & miscellaneous plastics products	Mich.	579	744	28.54
	U.S.	11,253	15,823	40.61
Leather and leather products	Mich.	43	53	24.54
	U.S.	2,470	2,859	15.75
TOTAL nondurable goods	Mich.	4,098	5,165	26.01
	U.S.	123,013	173,853	41.33
Lumber & wood products	Mich.	187	196	5.19
	U.S.	10,977	12,816	16.75
Furniture & fixtures	Mich.	356	562	58.03
	U.S.	5,866	7,725	31.69
Primary metal industries	Mich.	2,345	1,763	-24.78
	U.S.	27,697	26,587	- 4.01
Fabricated metal products	Mich.	2,850	2,800	- 1.76
	U.S.	28,342	34,170	20.56
Machinery, except electrical	Mich.	3,442	3,544	2.95
	U.S.	43,387	56,101	29.30
Electric and electronic equipment	Mich.	1,015	835	-17.74
	U.S.	32,567	51,877	59.29
Transportation equipment excl. motor vehicle	Mich.	313	561	79.10
	U.S.	20,796	32,710	57.29
Motor vehicles & equipment	Mich.	11,501	12,130	5.47
	U.S.	24,935	26,780	7.40
Stone, glass, and clay products	Mich.	449	459	2.21
	U.S.	11,937	14,201	18.97
Instruments and related products	Mich.	195	313	60.61
	U.S.	10,827	18,466	70.56
Miscellaneous manufacturing industries	Mich.	147	137	- 6.48
	U.S.	5,632	7,003	24.34
TOTAL durable goods	Mich.	22,800	23,301	2.20
	U.S.	222,963	288,436	29.36
TOTAL manufacturing	Mich.	26,898	28,466	5.83
	U.S.	345,976	462,289	33.62

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

a: Estimates based on 1972 Standard Industrial Classification. Estimates have been revised to reflect the 1980 Comprehensive NIPA Revisions.

TABLE XV-3. ANNUAL PAYROLL AND VALUE ADDED IN MICHIGAN AND UNITED STATES MANUFACTURING ESTABLISHMENTS, SELECTED YEARS: 1949-1982

(millions of dollars)

Year	Yearly payroll[a]		Value added by manufacture[b]	
	Michigan	United States[c]	Michigan	United States[c]
1949	3,479.7	41,482.0	5,770.0	75,366.5
1950	4,144.4	46,642.8	7,392.3	89,749.8
1951	4,604.5	54,741.5	7,858.4	102,085.8
1952	4,933.0	59,598.2	8,320.7	109,162.1
1953	5,919.4	66,492.9	9,781.6	121,659.1
1954	5,248.9	62,962.7	8,707.2	117,032.3
1955	6,083.5	69,096.6	10,690.5	135,022.5
1956	5,827.5	74,015.1	10,201.5	144,909.3
1957	5,835.5	76,314.6	10,375.4	147,838.4
1958	5,161.2	73,875.2	8,363.6	141,540.6
1959	5,855.1	81,203.6	10,534.8	161,535.8
1960	6,106.8	83,672.5	10,858.2	163,998.5
1961	5,678.2	83,677.4	10,191.7	164,281.1
1962	6,281.0	89,819.2	11,969.3	179,071.1
1963	6,950.7	99,898.8	13,090.3	192,082.9
1964	7,604.9	106,048.1	14,358.6	206,193.6
1965	8,586.1	113,972.2	16,885.6	226,939.9
1966	9,221.3	125,350.0	17,629.2	250,880.1
1967	9,357.2	132,208.4	17,241.6	261,983.8
1968	10,350.4	141,822.7	19,266.4	285,058.9
1969	11,041.6	152,765.0	20,253.0	304,440.7
1970	10,232.5	153,078.5	17,959.4	300,227.6
1971	11,128.6	156,202.8	20,270.6	314,138.4
1972	12,741.4	174,205.5	23,375.7	353,994.0
1973	14,768.3	193,324.5	27,170.4	405,583.6
1974	14,807.5	209,367.3	26,333.2	452,477.6
1975	14,100.4	209,519.0	25,084.0	442,485.2
1976	17,322.2	233,388.7	32,389.8	511,471.1
1977	20,054.0	264,013.1	37,566.0	585,165.6
1978	22,892.8	299,142.6	41,804.6	657,245.8
1982	22,210.4	379,800.3	39,118.1	n.a.

SOURCE: Bureau of the Census, 1982 Census of Manufactures, Preliminary Report Summary Series, United States (Washington, D.C.: 1984), MC82-SUM-1(P), Table 1; 1982 Census of Manufactures, Geographic Area Series, Michigan (Washington, D.C.: 1985), MC82-A-23, Table 2A; and similar documents for previous years.

a. Includes all forms of cash compensation before deductions for Social Security, income tax, and so forth. Does not include supplements. Includes central administrative offices, auxiliaries and factories.
b. Adjusted value added for 1956-67; unadjusted value added for previous years. Unadjusted value added is derived by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work from the value of shipments (including resales). Adjusted value added takes into account the net change in finished goods and work-in-process inventories during the year. The concept of value added is not applied to central administrative offices and auxiliaries.
c. Excludes Alaska and Hawaii prior to 1958.

TABLE XV-4. ANNUAL MAN-HOURS AND WAGES OF PRODUCTION WORKERS IN MICHIGAN AND U.S. MANUFACTURING ESTABLISHMENTS, SELECTED YEARS: 1950-1982

Year	Man-hours[a] (millions)		Wages[b] (millions of dollars)	
	Michigan	United States[c]	Michigan	United States[c]
1950	1,769.2	23,716.5	3,112.9	34,600.0
1951	1,761.2	25,263.8	3,397.4	40,654.8
1952	1,729.5	25,617.6	3,587.3	43,763.6
1953	1,987.3	27,065.6	4,327.1	48,979.1
1954	1,650.3	24,334.1	3,661.0	44,590.5
1955	1,912.4	25,898.3	4,365.1	49,217.9
1956	1,686.3	26,088.5	4,018.6	52,040.8
1957	1,592.6	25,208.0	3,946.7	52,569.0
1958	1,204.1	22,679.2	3,184.8	49,605.2
1959	1,388.1	24,443.6	3,769.7	54,714.1
1960	1,412.5	24,174.4	3,977.4	55,555.5
1961	1,256.4	23,289.4	3,597.8	54,764.6
1962	1,400.9	24,269.5	4,124.6	59,134.1
1963	1,473.9	24,509.4	4,521.0	62,090.8
1964	1,564.6	24,510.3	4,948.8	65,838.9
1965	1,721.7	26,567.8	5,698.9	71,361.5
1966	1,775.7	28,102.5	6,066.7	78,256.4
1967	1,669.2	27,837.6	6,008.0	81,393.6
1968	1,744.3	28,156.8	6,777.4	87,480.4
1969	1,743.1	28,599.8	7,154.9	93,459.6
1970	1,468.1	26,669.3	6,332.4	91,609.0
1971	1,463.5	25,265.9	6,965.4	93,231.3
1972	1,582.6	26,699.2	8,094.2	105,501.8
1973	1,736.4	28,096.9	9,545.3	118,332.6
1974	1,532.6	27,239.3	9,101.2	124,983.2
1975	1,308.4	24,069.6	8,512.1	121,429.0
1976	1,503.2	25,354.2	10,792.9	137,565.4
1977	1,626.3	26,686.7	12,720.6	157,163.7
1978	1,671.5	27,681.8	14,240.9	176,446.6
1982	1,090.5	23,526.6	12,494.3	204,523.1

SOURCE: Bureau of the Census, 1982 Census of Manufactures, Preliminary Report Summary Series, United States (Washington, D.C.: 1984), MC82-SUM-1(P), Table 1; 1982 Census of Manufactures, Geographic Area Series, Michigan (Washington, D.C.: 1985), MC82-A-23, Table 2A; and similar documents for previous years.

a. Man-hours worked or paid for at the plant, including actual overtime hours. Excludes hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. Data not available for Michigan prior to 1950.

b. Includes all forms of compensation before deductions for Social Security, income tax, and so forth.

c. Excludes Alaska and Hawaii prior to 1958.

TABLE XV-5. MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND NEW EQUIPMENT IN MICHIGAN AND THE UNITED STATES FOR SELECTED YEARS: 1955-1982

(Millions of dollars)

	Michigan			United States[a]		
Year	New structures and additions to plant	New machinery and equipment	Total	New structures and additions to plant	New machinery and equipment	Total
1955	197	609	806	2,426	5,808	8,233
1956	232	783	1,015	3,472	7,762	11,233
1957	129	566	695	3,865	8,279	12,144
1958	111	354	465	3,235	6,308	9,544
1959	102	430	531	2,582	6,558	9,140
1960	134	522	656	2,818	7,279	10,098
1961	110	453	563	2,749	7,031	9,780
1962	115	441	556	2,731	7,705	10,436
1963	171	591	762	2,966	8,404	11,370
1964	224	807	1,031	3,269	10,025	13,294
1965	n.a.	n.a.	1,453	4,186	12,429	16,615
1966	n.a.	n.a.	1,489	5,230	15,006	20,236
1967	336	1,024	1,360	5,714	15,789	21,503
1968	n.a.	n.a.	1,170	5,294	15,319	20,613
1969	n.a.	n.a.	1,372	5,806	16,485	22,291
1970	n.a.	n.a.	1,301	5,756	16,409	22,164
1971	n.a.	n.a.	1,202	5,342	15,599	20,941
1972	n.a.	n.a.	2,071	5,370	18,707	24,073
1973	n.a.	n.a.	1,998	6,016	20,958	26,973
1974	326	2,524	2,851	8,209	27,337	35,546
1975	307	1,956	2,263	n.a.	n.a.	37,262
1976	301	2,335	2,636	n.a.	n.a.	40,545
1977	475	3,364	3,739.2	8,606	40,036	47,459.0
1978	626	4,117	4,743	10,186	44,659	55,244
1982	519.0	2,993.8	3,512.8	n.a.	n.a.	74,983.1

SOURCE: Bureau of the Census, 1982 Census of Manufactures, Preliminary Report Summary Serires, United States (Washington, D.C.: 1984), MC82-SUM-1 (P) Table 1; 1982 Census of Manufactures, Geographic Area Series, Michigan (Washington, D.C.: 1985), MC82-A-23, Table 2A; and similar documents for previous years.

a. Excludes Alaska and Hawaii prior to 1958.
n.a.: Data not available.

TABLE XV-6. WEEKLY HOURS AND EARNINGS OF MANUFACTURING PRODUCTION WORKERS IN SELECTED MICHIGAN LABOR MARKETS: 1982-1984

Area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	1982	1983	1984	1982	1983	1984	1982	1983	1984
Ann Arbor	$482.35	$515.97	$594.74	41.6	43.2	45.4	$ 11.61	$ 11.94	$ 13.10
Battle Creek	452.89	490.90	522.50	39.4	41.1	41.7	11.49	11.95	12.53
Bay City	388.32	431.45	443.73	40.2	42.3	42.1	9.67	10.21	10.54
Benton Harbor	350.14	388.90	399.31	39.0	42.1	42.3	8.97	9.23	9.44
Detroit	488.68	526.53	568.01	41.2	42.8	44.1	11.85	12.29	12.88
Flint	519.09	595.76	629.82	39.6	44.6	44.7	13.10	13.33	14.09
Grand Rapids	364.49	411.20	430.76	38.9	41.3	41.7	9.37	9.97	10.33
Jackson	399.25	404.22	416.09	40.8	41.5	42.2	9.80	9.74	9.86
Kalamazoo-Portage	402.68	453.57	476.94	39.5	41.6	41.8	10.20	10.90	11.41
Lansing-East Lansing	478.19	570.26	610.01	39.1	43.4	44.3	12.24	13.13	13.77
Muskegon-Muskegon Heights-Norton Shores	371.07	416.07	443.22	38.3	40.0	40.7	9.69	10.41	10.89
Saginaw	502.65	581.57	625.66	39.3	42.7	43.6	12.80	13.61	14.35
Upper Peninsula	336.19	345.62	357.28	39.9	40.5	40.6	8.43	8.54	8.80
Michigan	449.33	494.02	526.18	40.2	42.5	43.2	11.18	11.62	12.18

SOURCE: Michigan Employment Security Commission, special release.

NOTE: Dollar figures include cash earnings, before payroll deductions, and exclude fringe benefits such as company paid health and welfare premiums and employer contributions to Social Security Trust Funds.

TABLE XV-7. HOURS AND EARNINGS OF MANUFACTURING PRODUCTION WORKERS IN MICHIGAN AND THE UNITED STATES, BY INDUSTRY GROUP: 1984

	Michigan			United States		
Industry group	Average weekly hours	Average hourly earnings	Average weekly earnings	Average weekly hours	Average hourly earnings	Average weekly earnings
Durable goods	43.6	$12.67	$552.41	41.4	$ 9.74	$403.23
Lumber and wood products	39.7	7.51	298.15	39.9	8.03	320.40
Furniture and fixtures	43.1	9.48	408.59	39.7	6.85	271.95
Stone, clay, and glass products	43.8	11.15	488.37	42.0	9.57	401.94
Primary metal products	41.1	12.23	502.65	41.7	11.47	478.30
Fabricated metal products	43.3	11.97	518.30	41.4	9.38	388.33
Nonelectrical machinery	43.3	12.16	526.53	41.9	9.96	417.32
Electrical machinery	41.7	10.34	431.18	41.0	9.04	370.64
Transportation equipment	44.7	14.17	633.40	42.7	12.22	521.79
Motor vehicle and equipment	45.0	14.33	644.85	43.8	12.74	558.01
Nondurable goods	41.7	10.24	427.01	39.6	8.37	331.45
Food and kindred products	41.5	10.41	432.01	39.8	8.38	333.52
Textile mill products & apparel	42.7	12.48	532.90	37.8	5.92	223.72
Paper and allied products	44.2	11.13	491.95	43.1	10.41	448.67
Printing and publishing	38.3	9.21	352.74	37.9	9.40	356.26
Chemicals and allied products	41.6	11.75	488.80	41.9	11.08	464.25
TOTAL	43.2	12.18	526.18	40.7	9.18	373.63

SOURCE: Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: March 1985), vol. 32, no. 3, Table C-2; Supplement to Employment and Earnings (Washington, D.C.: June 1985); and Michigan Employment Security Commission, special release.

TABLE XV-8. WEEKLY HOURS OF MANUFACTURING PRODUCTION WORKERS IN MICHIGAN AND THE UNITED STATES, MONTHLY: 1972-1984

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual average
						Michigan							
1972	41.3	41.6	41.9	42.3	42.5	42.9	42.5	42.1	43.4	43.3	43.7	45.2	42.8
1973	43.7	44.1	43.4	44.6	43.8	44.0	43.4	41.9	43.0	43.1	42.1	43.5	43.4
1974	40.9	40.8	41.2	38.6	41.8	41.9	41.8	41.5	42.2	42.2	40.2	41.8	41.2
1975	30.9	40.8	41.2	38.6	41.8	41.9	41.8	41.5	42.2	42.2	40.2	41.8	41.2
1975	39.8	39.5	39.4	39.8	39.7	40.3	40.7	40.8	41.6	41.0	41.1	44.4	40.7
1976	41.3	42.2	42.6	40.7	43.1	43.7	43.2	42.6	43.0	42.0	43.7	44.1	42.7
1977	42.2	42.0	43.2	43.2	43.6	44.1	43.5	42.5	43.5	43.2	43.4	45.2	43.3
1978	41.8	41.6	42.5	42.8	42.6	42.9	42.9	42.5	43.4	43.5	43.6	45.9	43.0
1979	42.5	42.9	43.1	37.3	42.2	41.8	41.1	40.5	40.6	41.0	39.2	42.0	41.2
1980	39.9	39.8	40.2	39.6	39.4	39.4	39.0	39.4	40.0	40.9	40.8	42.3	40.1
1981	41.1	39.2	41.1	40.8	41.8	41.8	40.3	40.6	38.6	40.3	39.7	40.5	40.5
1982	38.8	40.1	39.9	40.4	40.9	41.6	40.6	40.1	38.2	39.8	40.7	41.3	40.2
1983	41.1	41.4	41.7	42.4	42.1	42.4	42.1	42.1	43.5	43.3	43.8	43.8	42.5
1984	43.9	43.4	43.3	43.8	43.2	43.4	42.2	42.3	43.1	43.3	41.7	44.5	43.2
						United States							
1972	39.8	40.0	40.3	40.5	40.5	40.8	40.4	40.6	40.9	40.8	40.9	41.1	40.5
1973	39.9	40.5	40.7	40.7	40.7	40.9	40.6	40.5	41.0	40.7	40.9	41.2	40.7
1974	40.0	40.1	40.2	39.1	40.3	40.4	40.0	40.1	40.3	40.1	39.7	39.9	40.0
1975	38.7	38.5	38.7	38.9	39.0	39.5	39.2	39.7	40.2	40.0	40.1	40.9	39.5
1976	40.0	40.0	40.1	39.2	40.3	40.5	40.1	40.1	40.1	40.1	40.3	40.7	40.1
1977	39.1	39.9	40.2	40.1	40.4	40.8	40.1	40.3	40.7	40.6	40.7	41.1	40.3
1978	39.2	39.6	40.4	40.4	40.4	40.8	40.3	40.4	40.7	40.6	40.9	41.4	40.4
1979	40.1	40.2	40.6	38.9	40.1	40.4	39.9	40.0	40.3	40.3	40.4	40.9	40.2
1980	39.8	39.8	39.8	39.4	39.3	39.4	38.8	39.4	39.8	39.8	40.2	40.8	39.7
1981	39.9	39.5	39.9	39.7	40.1	40.2	39.6	39.9	39.5	39.7	39.7	39.9	39.8
1982	37.1	39.2	39.1	38.7	39.0	39.3	38.9	39.0	38.9	39.0	39.3	39.7	38.9
1983	39.2	38.8	39.6	39.8	39.9	40.3	40.0	40.2	40.8	40.7	40.8	41.2	40.1
1984	40.6	40.7	40.7	40.9	40.7	40.8	40.3	40.4	40.7	40.5	40.7	41.2	40.7

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, *Employment and Earnings* (Washington, D.C.: monthly), Table C-1; and *Supplement to Employment and Earnings* (Washington, D.C.: June 1985).

TABLE XV-9. WEEKLY EARNINGS OF MANUFACTURING PRODUCTION WORKERS IN MICHIGAN AND THE UNITED STATES, MONTHLY: 1972-1984

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual average
						Michigan							
1972	199.36	201.43	204.22	206.76	207.95	209.09	214.03	206.29	215.26	215.24	219.64	234.09	211.52
1973	225.67	228.97	223.55	232.95	228.07	230.43	227.24	218.13	226.44	228.30	223.34	235.86	228.63
1974	220.53	220.52	223.96	206.93	231.70	235.44	235.63	234.89	244.68	248.09	234.65	247.33	232.03
1975	230.80	229.38	233.05	237.17	238.08	245.19	249.78	252.51	261.62	261.79	262.96	291.71	290.18
1976	270.80	278.94	284.99	267.03	292.61	298.56	292.64	290.70	299.28	289.29	302.93	323.83	290.97
1977	308.48	302.02	318.30	318.21	322.99	330.66	327.34	318.33	331.43	338.39	339.78	356.85	326.27
1978	326.92	323.23	336.22	340.52	340.33	344.23	345.86	340.26	361.00	367.92	371.25	394.24	349.50
1979	363.89	369.71	374.54	320.15	369.50	363.74	361.15	348.75	354.80	365.15	347.82	380.77	359.72
1980	362.17	365.20	375.50	367.60	362.24	369.57	369.25	371.18	386.55	407.85	407.46	432.00	381.87
1981	419.01	398.14	422.52	420.88	437.09	441.60	423.64	426.77	413.31	438.41	431.40	443.67	426.27
1982	425.24	440.32	443.43	449.72	460.08	472.97	461.20	447.94	431.09	441.31	454.00	466.11	449.33
1983	468.59	472.71	476.28	488.02	483.84	493.49	489.86	482.99	511.00	508.70	520.19	524.35	494.02
1984	527.24	518.63	522.20	528.23	519.70	528.61	514.42	513.94	526.68	529.99	517.91	562.48	526.18
						United States							
1972	148.06	149.20	151.13	153.09	153.50	155.04	153.52	155.09	158.69	158.30	159.92	163.58	154.71
1973	159.60	161.60	162.80	164.02	164.84	166.05	166.05	165.65	170.15	169.31	171.37	174.69	166.46
1974	169.60	170.02	171.25	166.96	175.71	178.16	177.60	179.25	183.37	184.06	183.02	186.73	176.80
1975	181.02	180.95	183.44	184.78	186.03	189.60	188.94	192.15	197.38	196.80	198.90	205.73	190.79
1976	201.60	202.40	204.11	199.92	207.55	209.79	209.32	210.53	214.13	213.33	216.81	222.22	209.32
1977	215.05	218.65	221.90	222.96	226.24	230.52	228.17	229.31	235.65	236.29	238.10	243.72	228.90
1978	234.02	236.81	242.80	244.02	245.23	249.29	249.05	249.27	256.00	257.00	261.35	268.27	249.43
1979	260.65	262.51	266.34	254.80	265.86	269.47	268.13	268.00	274.04	274.85	277.55	285.48	269.34
1980	277.41	278.60	281.39	279.74	280.60	284.07	282.85	288.01	295.71	298.50	305.52	314.16	288.62
1981	308.43	306.13	311.62	312.84	317.59	320.39	317.59	320.40	322.32	323.95	325.54	329.97	318.00
1982	312.38	326.93	327.27	325.85	329.55	334.05	332.60	331.89	334.15	333.84	338.37	344.60	330.65
1983	341.04	338.72	345.71	348.25	349.92	354.24	353.60	352.96	362.71	362.23	366.38	372.86	354.08
1984	369.05	369.56	370.78	373.01	371.18	373.32	370.36	369.66	376.07	374.22	378.92	387.28	373.63

SOURCE: Michigan Employment Security Commission, special release and Bureau of Labor Statistics, Employment and Earnings (Washington, monthly), Table C-1; and Supplement to Employment and Earnings (Washington, D.C.: June 1985).

TABLE XV-10. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN MANUFACTURING AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

	Percentage			Percentage	
County	1973	1983	County	1973	1983
Genesee	57.76	56.38	Iron	8.66	25.78
Midland	65.13	52.36	Van Buren	35.75	25.57
Montcalm	41.78	51.65	Eaton	31.07	25.40
St. Joseph	51.64	49.57	Livingston	24.70	25.40
Ottawa	47.83	49.20	Huron	23.52	25.26
Macomb	56.06	48.93	Benzie	16.61	25.02
Saginaw	53.43	48.29	Otsego	29.89	24.62
Allegan	39.18	46.61	Schoolcraft	16.30	23.32
Osceola	51.98	45.75	Gladwin	21.69	22.97
Muskegon	48.07	45.42	Dickinson	19.28	22.76
Berrien	53.80	44.96	Lapeer	25.65	22.12
Lenawee	52.55	44.83	Alcona	11.03	21.86
Hillsdale	43.06	44.36	Clinton	20.11	20.59
Alger	38.51	43.10	Ogemaw	18.09	20.33
Manistee	41.37	42.68	Tuscola	24.38	19.89
Cass	43.64	41.77	Antrim	37.93	19.24
Kalamazoo	43.38	41.24	Arenac	15.65	18.49
Menominee	41.41	40.94	Grand Traverse	14.15	17.55
Wayne	44.74	40.69	Kalkaska	15.99	16.10
Sanilac	32.93	40.22	Mecosta	15.91	14.73
Calhoun	45.64	40.16	Clare	14.01	14.01
Delta	32.01	39.73	Oceana	11.26	13.16
Washtenaw	44.01	38.40	Emmet	14.86	13.09
Kent	37.90	38.37	Oscoda	14.87	12.72
Ionia	38.18	38.30	Isabella	7.89	12.36
Barry	45.50	36.81	Gogebic	24.19	10.91
Bay	36.69	36.26	Iosco	7.87	10.58
Gratiot	33.88	35.66	Crawford	16.27	9.87
Wexford	31.61	35.51	Montmorency	33.14	9.06
Mason	34.12	35.29	Roscommon	8.18	7.35
Charlevoix	34.97	34.77	Missaukee	1.69	6.44
Ingham	38.13	34.65	Chippewa	2.71	6.36
Newaygo	32.87	34.51	Houghton	9.15	5.42
Branch	31.58	34.28	Leelanau	7.06	4.65
Alpena	37.50	34.24	Presque Isle	2.98	4.60
Jackson	41.20	31.04	Mackinac	6.18	3.89
Shiawassee	36.47	30.18	Luce	8.34	2.64
Cheboygan	29.08	29.14	Marquette	3.88	2.51
Oakland	36.27	28.38	Keweenaw	34.87	(D)
Baraga	41.94	28.03	Lake	12.78	(D)
Ontonagon	10.35	27.80			
Monroe	40.56	27.38	Michigan	43.19	38.56
St. Clair	33.03	26.06	United States	26.19	23.79

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XV-11. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN MANUFACTURING: 1982-1983

	Percentage change			Percentage change	
County	1973-1983	1982-1983	County	1973-1983	1982-1983
Iron	555	42	Dickinson	150	7
Huron	66	35	Mecosta	90	7
Otsego	114	29	Luce	-28	7
Arenac	122	25	Livingston	157	7
Wexford	154	24	Tuscola	36	6
Sanilac	73	22	Newaygo	106	5
Monroe	50	22	Allegan	143	4
Ingham	109	22	Schoolcraft	194	4
Montcalm	189	20	Mason	87	4
Clinton	122	20	Alcona	242	4
Houghton	27	20	Wayne	36	3
Branch	105	20	Berrien	31	3
Mackinac	26	19	Charlevoix	105	2
Oscoda	36	18	Lenawee	28	2
Kalkaska	355	17	Midland	87	2
Isabella	268	17	St. Clair	65	2
Osceola	65	16	Bay	78	2
Cass	70	16	Ogemaw	145	1
Genesee	90	16	Roscommon	94	0
Emmet	89	15	Muskegon	72	0
Eaton	58	14	Delta	153	-1
Lapeer	71	14	Cheboygan	92	-1
Alpena	65	13	Baraga	5	-2
Alger	104	13	Calhoun	53	-2
Ionia	77	12	Jackson	26	-3
Saginaw	62	12	Barry	42	-3
Menominee	106	12	Gogebic	-30	-5
Presque Isle	171	12	Clare	112	-6
Gladwin	108	12	Oceana	112	-6
Macomb	59	12	Chippewa	185	-7
Grand Traverse	240	11	Leelanau	9	-8
Kent	131	11	Marquette	31	-14
Ottawa	151	10	Crawford	29	-16
Washtenaw	112	10	Van Buren	25	-18
Hillsdale	84	10	Ontonagon	129	-20
Gratiot	76	10	Antrim	-16	-38
Manistee	122	10	Montmorency	-61	-39
Iosco	144	9	Missaukee	505	-43
Benzie	196	9	Keweenaw	(D)	(D)
Oakland	82	8	Lake	(D)	(D)
Kalamazoo	121	8			
St. Joseph	81	8	Michigan	65	8
Shiawassee	41	8	United States	110	4

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XV-12. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN NON-DURABLE GOODS MANUFACTURING AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

County	Percentage		County	Percentage	
	1973	1983		1973	1983
Midland	64.23	51.71	Alpena	12.31	4.85
Alger	32.79	39.72	Washtenaw	3.70	4.56
Osceola	24.50	29.67	Branch	3.12	4.53
Allegan	16.45	29.46	Tuscola	3.55	4.26
Newaygo	28.28	28.57	Gladwin	1.04	3.91
Delta	13.14	26.91	Oceana	3.75	3.72
Manistee	26.82	26.54	Shiawassee	9.01	3.36
Calhoun	19.96	24.71	Leelanau	2.57	3.19
Kalamazoo	22.40	24.19	Saginaw	2.59	3.18
Sanilac	12.99	20.05	Monroe	7.95	2.97
Ontonagon	4.25	19.58	Oakland	2.41	2.79
Benzie	11.01	19.54	Arenac	1.21	2.63
Gratiot	17.00	19.51	Antrim	1.17	2.36
Cheboygan	14.37	19.35	Emmet	1.14	2.10
Schoolcraft	11.68	19.15	Ingham	2.27	1.85
Mason	10.38	17.03	Missaukee	0.63	1.63
St. Joseph	14.57	16.12	Iron	1.16	1.56
Lenawee	10.33	14.21	Houghton	3.08	1.54
Hillsdale	5.41	14.17	Mackinac	1.53	1.54
Wexford	8.36	13.91	Roscommon	1.44	1.53
Baraga	20.78	12.34	Gogebic	3.11	1.45
St. Clair	10.44	11.41	Genesee	1.91	1.35
Lapeer	8.42	11.04	Chippewa	1.05	1.35
Menominee	8.05	10.67	Montmorency	8.04	1.20
Kent	8.89	10.60	Alcona	(D)	1.12
Bay	5.43	10.24	Isabella	1.29	1.12
Ottawa	8.59	9.89	Marquette	1.91	0.81
Van Buren	10.38	9.86	Clinton	0.61	0.44
Grand Traverse	6.89	8.64	Keweenaw	0.00	0.00
Berrien	9.01	7.81	Lake	(D)	0.00
Montcalm	6.31	7.80	Charlevoix	3.24	(D)
Macomb	7.40	7.74	Crawford	1.34	(D)
Clare	3.62	7.33	Iosco	0.39	(D)
Muskegon	6.46	7.07	Kalkaska	(D)	(D)
Huron	5.15	6.69	Luce	0.56	(D)
Livingston	3.64	6.33	Mecosta	10.75	(D)
Ionia	11.40	5.71	Ogemaw	0.43	(D)
Barry	1.57	5.64	Oscoda	(D)	(D)
Cass	2.31	5.58	Otsego	1.16	(D)
Wayne	5.69	5.31	Presque Isle	0.53	(D)
Eaton	2.01	5.26			
Dickinson	2.78	5.15	Michigan	6.61	7.00
Jackson	7.11	5.11	United States	9.49	8.94

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XV-13. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN NON-DURABLE GOODS MANUFACTURING: 1982-1983

	Percentage change			Percentage change	
County	1973-1983	1982-1983	County	1973-1983	1982-1983
[redacted]	(D)	121	Muskegon	100	6
[redacted]	101	63	Emmet	295	6
Ottawa	181	34	Bay	240	6
Oakland	170	31	Dickinson	292	5
Grand Traverse	244	30	St. Clair	128	4
Washtenaw	200	29	Menominee	176	4
Gladwin	641	28	Gratiot	92	3
Eaton	404	28	Allegan	266	2
Barry	530	27	Midland	87	2
Sanilac	118	27	Calhoun	115	2
Hillsdale	367	25	Alpena	-29	1
Wexford	276	24	Schoolcraft	237	1
Livingston	335	23	Wayne	40	1
Cass	329	22	Tuscola	100	1
Ontonagon	293	22	Iron	197	0
Osceola	127	20	Roscommon	130	-1
Chippewa	56	18	Saginaw	120	-2
Clinton	57	17	Cheboygan	158	-9
Macomb	91	15	Houghton	7	-10
Monroe	-17	15	Missaukee	313	-10
Branch	174	15	Oceana	80	-11
Arenac	307	14	Isabella	104	-11
St. Joseph	109	14	Leelanau	106	-19
Alger	121	13	Antrim	233	-22
Baraga	-6	13	Jackson	20	-22
Lapeer	160	12	Gogebic	-28	-38
Benzie	248	11	Marquette	-15	-42
Manistee	113	11	Charlevoix	(D)	(D)
Lenawee	107	9	Crawford	(D)	(D)
Genesee	37	9	Iosco	(D)	(D)
Kent	172	9	Kalkaska	(D)	(D)
Clare	329	9	Keweenaw	(NA)	(NA)
Van Buren	66	9	Lake	(D)	(NA)
Montcalm	189	8	Luce	(D)	(D)
Mason	197	8	Mecosta	(D)	(D)
Newaygo	98	8	Montmorency	-79	(D)
Ionia	-11	7	Ogemaw	(D)	(D)
Kalamazoo	150	7	Oscoda	(D)	(D)
Mackinac	101	7	Otsego	(D)	(D)
Shiawassee	-37	6	Presque Isle	(D)	(D)
Ingham	87	6			
Berrien	36	6	Michigan	96	8
Delta	317	6	United States	118	6

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XV-14. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN DURABLE GOODS MANUFACTURING AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

County	Percentage		County	Percentage	
	1973	1983		1973	1983
Genesee	55.85	55.03	Arenac	14.43	15.86
Saginaw	50.84	45.12	Van Buren	25.37	15.70
Montcalm	35.47	43.85	Baraga	21.16	15.69
Macomb	48.66	41.19	Tuscola	20.83	15.63
Ottawa	39.24	39.31	Calhoun	25.68	15.45
Muskegon	41.62	38.35	St. Clair	22.59	14.65
Berrien	44.78	37.16	Delta	18.87	12.82
Cass	41.33	36.18	Oscoda	(D)	12.59
Wayne	39.05	35.38	Isabella	6.60	11.24
Washtenaw	40.31	33.83	Lapeer	17.22	11.08
St. Joseph	37.07	33.45	Emmet	13.72	10.99
Ingham	35.86	32.81	Cheboygan	14.71	9.79
Ionia	26.78	32.59	Gogebic	21.08	9.47
Barry	43.93	31.17	Oceana	7.51	9.43
Lenawee	42.23	30.63	Grand Traverse	7.26	8.91
Menominee	33.36	30.27	Ontonagon	6.10	8.23
Hillsdale	37.65	30.19	Montmorency	25.09	7.85
Branch	28.45	29.75	Clare	10.39	6.68
Alpena	25.19	29.38	Newaygo	4.59	5.94
Kent	29.02	27.78	Roscommon	6.74	5.82
Shiawassee	27.46	26.82	Benzie	5.61	5.49
Bay	31.26	26.02	Chippewa	1.66	5.01
Jackson	34.09	25.93	Missaukee	1.06	4.81
Oakland	33.87	25.59	Schoolcraft	4.62	4.16
Monroe	32.61	24.41	Houghton	6.07	3.88
Iron	7.50	24.21	Alger	5.72	3.38
Wexford	23.25	21.60	Mackinac	4.66	2.36
Alcona	(D)	20.74	Marquette	1.97	1.70
Sanilac	19.94	20.17	Leelanau	4.49	1.46
Clinton	19.50	20.15	Midland	0.90	0.66
Eaton	29.06	20.15	Charlevoix	31.73	(D)
Livingston	21.05	19.07	Crawford	14.93	(D)
Gladwin	20.65	19.06	Iosco	7.47	(D)
Huron	18.37	18.57	Keweenaw	34.87	(D)
Mason	23.74	18.26	Lake	(D)	(D)
Dickinson	16.50	17.60	Luce	7.78	(D)
Allegan	22.73	17.15	Mecosta	5.16	(D)
Kalamazoo	20.97	17.06	Ogemaw	17.65	(D)
Antrim	36.76	16.88	Otsego	28.73	(D)
Gratiot	16.88	16.15	Presque Isle	2.45	(D)
Manistee	14.55	16.14			
Kalkaska	(D)	16.08	Michigan	36.57	31.55
Osceola	27.48	16.08	United States	16.71	14.84

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XV-15. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN DURABLE GOODS MANUFACTURING: 1982-1983

	Percentage change			Percentage change	
County	1973-1983	1982-1983	County	1973-1983	1982-1983
Iron	610	46	St. Joseph	70	5
Houghton	37	38	Hillsdale	43	4
Leelanau	-46	30	Wayne	36	4
Mackinac	1	29	Alger	8	4
Huron	56	27	Gogebic	-30	4
Arenac	106	26	Livingston	127	3
Wexford	110	23	Berrien	30	3
Monroe	66	23	Benzie	92	2
Ingham	110	23	Jackson	27	2
Montcalm	189	22	Roscommon	86	1
Branch	97	20	Alcona	(D)	1
Isabella	300	20	Mason	39	1
Schoolcraft	85	20	St. Clair	35	0
Clinton	124	20	Bay	50	0
Gratiot	60	19	Lenawee	9	0
Oscoda	(D)	19	Muskegon	68	-1
Sanilac	43	18	Grand Traverse	237	-2
Kalkaska	(D)	17	Newaygo	154	-4
Cheboygan	27	17	Oceana	128	-5
Emmet	72	16	Barry	25	-7
Genesee	91	16	Calhoun	4	-8
Alpena	111	16	Baraga	17	-11
Cass	55	15	Chippewa	267	-12
Menominee	89	15	Delta	39	-14
Lapeer	28	15	Clare	36	-18
Ionia	115	13	Van Buren	8	-29
Saginaw	59	13	Antrim	-24	-40
Kent	118	11	Missaukee	619	-49
Macomb	54	11	Ontonagon	15	-56
Eaton	34	10	Charlevoix	(D)	(D)
Osceola	10	10	Crawford	(D)	(D)
Marquette	75	10	Iosco	(D)	(D)
Kalamazoo	89	10	Keweenaw	(D)	(D)
Gladwin	81	9	Lake	(D)	(D)
Dickinson	126	8	Luce	(D)	(D)
Allegan	54	8	Mecosta	(D)	(D)
Washtenaw	104	8	Montmorency	-55	(D)
Manistee	138	8	Ogemaw	(D)	(D)
Shiawassee	66	8	Otsego	(D)	(D)
Tuscola	25	8	Presque Isle	(D)	(D)
Midland	69	6			
Oakland	76	6	Michigan	60	8
Ottawa	145	6	United States	106	3

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE XV-17. PRODUCTION OF RAW STEEL IN MICHIGAN AND THE UNITED STATES: 1951-1984

(000 short tons)

Year	Michigan	United States	Michigan as percentage of United States
1951	4,829	105,200	4.6
1952	4,552	93,200	4.9
1953	5,142	111,482	4.6
1954	4,224	88,316	4.8
1955	5,999	116,858	5.1
1956	6,231	114,999	5.4
1957	6,220	112,630	5.5
1958	4,567	85,149	5.4
1959	5,634	95,361	6.0
1960	6,529[a]	98,812	6.6
1961	6,644[a]	97,417	6.8
1962	7,126[a]	98,221	7.3
1963	8,447[a]	109,011	7.7
1964	9,435	126,460	7.5
1965	8,990	131,237	6.9
1966	10,004	132,902	7.5
1967	9,247	126,323	7.3
1968	9,220	127,509	7.2
1969	10,039	141,008	7.1
1970	9,581	130,940	7.3
1971	9,069	120,443	7.5
1972	9,380	133,241	7.0
1973	10,945	150,799	7.3
1974	10,459	145,720	7.2
1975	9,093	116,642	7.8
1976	10,382	128,000	8.1
1977	10,051	125,333	8.0
1978	10,789	137,031	7.9
1979	10,922	136,341	8.0
1980	7,877	111,835	7.0
1981	8,943	120,828	7.4
1982	6,075	74,577	8.1
1983	7,262	84,615	8.6
1984[b]	7,714	91,532	8.4

SOURCE: Bureau of the Census, Current Industrial Reports, Iron and Steel Foundries and Steel Ingot Production (Washington, D.C.: 1984), M33A(83)-13, Table 10, and similar reports for previous years.

a. Includes Wisconsin.
b. Tonnage statistics released by the American Iron and Steel Institute.

TABLE XV-18. SHIPMENTS OF SELECTED STEEL MILL PRODUCTS INCLUDING INTERPLANT TRANSFERS, MICHIGAN AND THE UNITED STATES: 1971-1983

(000 short tons)

Year		Hot-rolled sheet and strip[a]	Steel pipe and tube	Cold-rolled sheet and strip	Cold-rolled bar and shape	Total[b]
1971	Michigan	n.a.	171	3,283	n.a.	8,750
	United States	32,632	8,626	17,274	1,585	108,329
1972	Michigan	n.a.	224	3,439	n.a.	9,000
	United States	36,564	8,708	18,080	1,907	114,498
1973	Michigan	5,566	279	3,896	n.a.	10,654
	United States	42,758	10,616	22,719	2,373	136,965
1974	Michigan	5,724	247	3,289	n.a.	10,138
	United States	41,382	11,790	20,938	2,503	137,786
1975	Michigan	4,828	241	2,386	141	8,110
	United States	1,131	9,903	14,783	1,639	99,862
1976	Michigan	5,816	279	3,057	163	9,619
	United States	37,602	7,915	20,265	1,739	112,257
1977	Michigan	5,603	229	2,944	165	9,343
	United States	37,525	9,170	19,490	1,919	112,075
1978	Michigan	6,110	248	3,173	171	10,287
	United States	38,903	10,400	19,734	2,112	120,890
1979	Michigan	n.a.	248	2,837	188	12,123
	United States	39,484	10,547	19,529	2,284	124,074
1980	Michigan	n.a.	182	2,176	n.a.	7,817
	United States	32,857	10,983	15,081	1,668	104,075
1981	Michigan	5,240	205	2,117	164	8,252
	United States	34,779	12,765	16,657	1,806	109,761
1982	Michigan	3,726	162	1,462	89	5,693
	United States	26,455	6,670	12,499	1,071	73,684
1983	Michigan	4,184	183	1,891	n.a.	6,647
	United States	31,792	5,440	15,710	1,316	83,774

SOURCE: Bureau of the Census, Current Industrial Reports, Steel Mill Products (Washington, D.C., 1985), MA 33B(83)-1, Table 7; and similar reports for previous years.

a. Includes tin mill products.
b. Includes items not specified in other columns of this table.
n.a.: Data not available.

TABLE XV-19. MICHIGAN OIL REFINERIES: 1982

Company	Refinery location	Nominal capacity Bbls/day
Bay Refining, Dow Chemical Co.	Bay City	17,000
Crystal Refining Co.	Carson City	6,200
Lakeside Refining Co.	Kalamazoo	5,600
Total Petroleum, Inc.	Alma	42,500
Marathon Oil Co.	Detroit	68,500
Osceola Refining Co.	West Branch	12,500
Total capacity		152,300
Total average daily amount of crude refined		93,084
Michigan produced crude		56,548
Out-of-State produced crude		36,536

SOURCE: Michigan Department of Natural Resources, Michigan's Oil and Gas Fields, 1982, Annual Statistical Summary 36 (Lansing: 1984), Table 26.

TABLE XV-20. PRODUCTION OF INORGANIC CHEMICALS IN MICHIGAN AND THE UNITED STATES: 1967-1983

(In thousands of short tons)

	Chlorine gas		Sodium hydroxide		Hydrochloric acid	
Year	Michigan	United States	Michigan	United States	Michigan	United States
1967	589	7,680	687	8,398	126	1,630
1968	601	8,444	672	8,868	119	1,748
1969	627	9,376	672	9,917	139	1,911
1970	583	9,764	611	10,141	131	2,014
1971	502	9,352	522	9,667	140	2,099
1972	510	9,873	528	10,217	138	2,302
1973	533	10,402	584	10,734	130	2,516
1974	563	10,753	613	11,189	139	2,451
1975	445	9,167	484	9,635	101	2,009
1976	432	10,378	472	10,516	102	2,542
1977	367	10,573	408	11,000	71	2,668
1978	380	11,052	421	11,326	108	2,791
1979	466	12,291	513	12,759	[illegible]81	3,090
1980	383	11,421	420	11,625	169	2,895
1981	438	10,545	370	10,633	107	2,443
1982	140	9,176	155	9,385	101	2,460
1983	54	9,864	62	10,039	72	2,420

SOURCE: U. S. Department of Commerce, Bureau of the Census, Current Industrial Reports, Series MA28A, Annual Summaries for 1967 to 1982, tables 3 and 6. Monthly series for 1981, table 3 (Washington, D.C.: monthly).

TABLE XV-16. RAW STEEL PRODUCTION IN MICHIGAN AND THE UNITED STATES, BY MONTH: 1973-1984

(1,000 tons)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1973	807	786	895	936	995	925	930	920	930	968	890	963
1974	935	824	916	841	871	864	919	864	837	949	824	815
1975	867	787	852	738	693	654	693	710	776	783	708	766
1976	818	823	859	821	966	927	888	896	805	833	904	849
1977	823	796	884	823	877	891	811	908	875	768	799	775
1978	772	741	912	807	902	909	978	940	950	1,035	920	926
1979	1,002	878	1,044	988	1,025	981	968	942	819	823	753	751
1980	839	810	828	803	585	365	437	452	546	737	760	706
1981	770	702	827	798	788	744	792	794	684	579	590	612
1982	500	451	544	592	617	570	597	550	478	413	360	448
1983	536	561	675	656	659	588	620	523	508	637	609	562
1984	615	618	732	741	739	658	654	623	524	599	582	604
						United States						
1973	12,372	11,626	13,088	12,789	13,174	12,488	12,290	12,181	12,229	12,876	12,587	12,722
1974	12,726	11,598	12,758	12,442	12,752	12,185	12,155	11,837	11,849	12,617	11,614	10,960
1975	11,584	10,862	11,980	10,667	9,864	8,744	8,370	8,648	9,295	9,214	8,709	8,846
1976	9,835	9,907	11,294	11,439	12,136	11,605	11,400	11,128	10,463	10,295	9,227	9,215
1977	9,089	8,859	11,049	11,167	12,201	11,384	10,319	10,392	10,050	10,442	9,748	10,031
1978	10,301	9,643	11,082	11,528	12,320	11,861	11,387	11,550	11,467	12,104	11,654	11,812
1979	11,105	10,562	12,576	12,196	12,789	12,230	11,821	11,309	10,541	10,810	9,997	9,996
1980	10,701	10,332	11,439	10,658	9,226	7,501	6,796	7,019	7,767	9,442	10,057	10,180
1981	10,590	10,028	11,744	11,243	11,374	10,451	10,160	10,120	9,618	9,003	7,962	7,671
1982	7,737	7,178	8,049	6,982	6,678	6,050	5,719	5,538	5,302	5,262	4,546	4,456
1983	5,570	5,676	7,127	7,292	7,412	6,993	6,921	7,020	7,134	7,692	6,263	6,991
1984	7,970	8,142	9,056	8,997	9,174	7,945	7,460	6,915	6,378	6,703	6,422	6,013

SOURCE: American Iron and Steel Institute, special release.

TABLE XV-22. WINE SHIPMENTS BY WINERY, AND BEER SHIPMENTS BY BREWERY, IN MICHIGAN: 1983 AND 1984

Producer	1983	1984
Winery shipments (liters)		
Boskydel	13,978.95	14,729.30
Bronte	134,623.00	42,886.00
Chateau Grand Traverse	20,197.40	57,580.30
Chi (Bridgeman)	13,320.64	29,747.34
Chi (Buchanan)	80,751.14	121,290.87
Fenn Valley	43,885.19	53,488.96
Fink	--	1,321.62
Frontenac	137,445.30	117,196.60
Good Harbor	19,794.81	30,428.99
Lakeside	149,680.88	121,751.48
Leelanau (Frank)	12,186.00	8,409.00
Leelanau (Omena)	42,138.00	34,670.00
Leelanau (T.C.)	15,642.00	10,350.00
L. Mawby	4,811.98	8,168.00
Milan	133,229.26	75,472.85
Parmenter	18,442.92	2,851.40
Peterson & Sons	258.16	1,898.38
Seven Lakes	--	3,363.16
St. Julian (Frank)	56,986.72	4,374.40
St. Julian (Paw Paw)	519,722.80	427,426.00
Warner	557,425.30	621,739.20
TOTAL	2,189,327.63[a]	1,789,144.15
Brewery Shipments (barrels)		
Carling National Breweries		
Michigan Sales	895,415	c
Shipped-out	241,145	c
Total	1,136,560	c
Geyer Brothers Brewery		
Michigan Sales	2,892	2,583
Shipped-out	86	26
Total	2,978	2,609
G. Heilman Brewing Company		
Michigan Sales	--	858,278
Shipped-out	--	432,439
Total	--	1,290,717
The Real Ale Company		
Michigan Sales	281	24
Shipped-out	0	0
Total	281	24
The Stroh Brewery Company		
Michigan Sales	784,331	1,095,232
Shipped-out	4,184,206	3,557,644
Total	4,968,537	4,652,876

TABLE XV-22. WINE SHIPMENTS BY WINERY, AND BEER SHIPMENTS BY BREWERY, IN MICHIGAN: 1983 AND 1984 (cont.)

Producer	1983	1984
Brewery Shipments (barrels) - cont.		
The Stroh Brewery-Goebel Division		
Michigan Sales	64,882	d
Shipped-out	118,466	d
Total	183,348	d
The Stroh Brewery - Schlitz Division		
Michigan Sales (only)	296,272	d
Total all breweries		
Michigan Sales	2,044,073	1,956,117
Shipped-out	4,543,903	3,990,109
TOTAL	6,587,976	5,946,226

SOURCE: Michigan Liquor Control Commission, special release.

a. Nonalcoholic wine is also included in 1983 total figure. Nonalcholic wine is not included in each separate winery entry in 1983.
b. Nonalcoholic wine is also included in each separate winery entry of 1984 and in the 1984 total figure.
c. Carling National Breweries is now a division of G. Heilman Brewing Company.
d. 1984 data aggregated into the 1984 data of Stroh Brewery Company.

TABLE XV-23. CAPITAL EXPENDITURES AND GROSS ANNUAL COSTS FOR POLLUTION ABATEMENT IN MANUFACTURING ESTABLISHMENTS IN MICHIGAN AND THE UNITED STATES: 1973-1982

(In millions of dollars)

	Capital expenditures			Annual operating costs		
Year	Air	Water	Solid waste	Air	Water	Solid waste
			Michigan			
1973	62.7	41.9	4.0	62.3	64.0	36.6
1974	52.8	42.9	10.2	65.1	78.4	36.4
1975	49.9	52.5	8.4	83.0	75.5	41.3
1976	45.7	57.2	3.8	91.7	93.1	52.0
1977	60.9	81.6	6.1	94.6	120.2	72.8
1978	87.9	73.2	9.7	108.9	134.0	85.1
1979	130.9	77.8	9.8	141.4	157.8	88.9
1980	83.6	66.3	13.6	135.3	168.2	109.3
1981	144.6	65.2	12.4	143.8	199.1	123.9
1982	96.5	45.5	6.1	107.3	171.4	91.6
			United States			
1973	1,417.5	827.8	108.2	960.5	993.3	491.7
1974	1,947.5	1,008.8	144.7	1,210.7	1,261.4	630.7
1975	2,235.7	1,280.1	121.8	1,508.1	1,496.4	669.7
1976	1,797.8	1,599.2	134.8	1,888.2	1,824.0	827.1
1977	1,652.0	1,674.1	157.7	2,240.4	2,203.4	981.4
1978	1,853.6	1,246.5	178.9	2,527.4	2,529.9	1,218.2
1979	2,071.9	1,245.7	246.9	3,061.8	3,015.6	1,322.5
1980	2,105.5	1,146.5	251.0	3,297.8	3,193.1	1,650.6
1981	2,193.6	1,028.4	263.1	3,697.8	3,554.3	1,855.7
1982	1,828.2	977.4	218.5	3,455.9	3,488.5	1,619.9

SOURCE: U. S. Department of Commerce, Bureau of the Census, Current Industrial Reports, Pollution Abatement Costs and Expenditures, 1982 (Washington, D.C.), MA-200(82)-1.

XVI. THE AUTOMOTIVE ECONOMY

The Motor Vehicle Manufacturers Association of the United States, Inc., is a source of data pertaining to production and shipments of motor vehicles in the United States and Canada as well as other countries. In Canada, the Automotive Parts Manufacturers Association, in Toronto, prepares analyses of North American vehicle production, sales, and employment.

Two Detroit organizations, Crain Communications, Inc., and Ward's Communications, Inc., publish weekly compilations of statistics as well as news items pertaining to vehicle production and sales in the United States, Canada, and other countries.

In Washington the U.S. International Trade Commission publishes monthly U.S. automobile economic indicators, and the International Trade Administration, in the U.S. Department of Commerce, publishes monthly Canada-U.S. automotive trade statistics. Statistics Canada, in Ottawa, publishes monthly data on automotive production, sales, and employment.

Passenger car and truck registration data are available in geographic as well as make and model detail from R.L. Polk and Company in Detroit.

The Michigan Employment Security Commission releases monthly vehicle employment, hours, and earnings data for Michigan and its regions. The MESC, also, from time-to-time, conducts surveys of Michigan manufacturers regarding automotive related employment.

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TABLE XV-21. COMMERCIAL WHEAT MILLING PRODUCTION IN MICHIGAN AND THE UNITED STATES: 1967-1983

Year	Wheat grd. for flour (1,000 bushels)		Wheat flour production: Total (1,000 cwt. sacks)		Wheat flour production: Daily (24 hour capacity cwt. sacks)		Average lbs. per cwt. sacks of flour
	Michigan	United States	Michigan	United States	Michigan	United States	
1967	16,966	549,801	7,453	245,240	33,870	1,132,923	n.a.
1968	17,483	569,649	7,561	254,185	31,429	1,001,526	n.a.
1969	17,861	567,956	7,740	254,094	32,129	1,013,322	n.a.
1970	16,506	563,714	7,275	253,094	34,656	987,962	n.a.
1971	16,003	555,092	7,120	249,810	34,029	972,736	133.3
1972	14,199	557,801	6,236	250,441	19,576	985,460	133.6
1973	9,351	567,287	4,117	254,661	18,486	979,794	133.7
1974	9,557	562,962	3,922	251,097	17,724	978,276	134.5
1975	8,397	582,675	3,739	258,985	19,485	991,008	134.9
1976	9,374	618,284	4,053	275,077	19,511	1,040,628	135.0
1977	9,147	618,125	4,153	275,784	20,049	1,072,143	134.5
1978	10,416	621,321	4,446	277,950	20,220	1,058,873	134.1
1979	10,196	636,375	4,429	284,051	20,449	1,054,589	134.4
1980	9,894	628,599	4,285	282,655	22,249	1,059,643	133.4
1981	10,834	634,381	4,741	283,966	23,109	1,062,950	134.0
1982	10,875	640,158	4,735	284,965	26,350	n.a.	134.8
1983	11,295	686,983	4,886	306,066	25,149	1,127,223	n.a.

Source: U.S. Department of Commerce, Bureau of the Census, Current Industrial Reports, Series M20 A-13, Annual Summaries, table 4 (Washington, D.C.: Annually).

n.a.: not available.

TABLE XVI-1. WORLD PRODUCTION OF MOTOR VEHICLES, BY COUNTRY: 1958-1983

Year	United States	Canada	Japan	France	West Germany	Italy	United Kingdom	Russia	Spain
1958	5,121,269	356,418	188,303	1,127,549	1,495,221	403,560	1,364,407	511,074	31,050
1959	6,723,588	367,939	262,814	1,283,159	1,718,544	500,784	1,560,427	494,994	56,800
1960	7,905,117	397,739	481,551	1,369,210	2,055,127	644,633	1,810,700	523,591	58,209
1961	6,652,938	386,923	813,879	1,244,223	2,147,825	759,140	1,464,134	555,330	75,000
1962	8,197,311	505,187	990,706	1,536,133	2,356,594	946,793	1,674,530	577,500	100,163
1963	9,108,776	631,356	1,283,531	1,736,977	2,667,896	1,180,536	2,011,720	587,012	131,988
1964	9,307,860	670,990	1,702,475	1,615,896	2,909,657	1,090,078	2,332,376	603,100	178,128
1965	11,137,830	846,609	1,875,614	1,641,696	2,976,477	1,175,548	2,177,261	634,312	228,935
1966	10,396,299	872,214	2,286,399	2,024,552	3,050,708	1,365,898	2,042,354	675,300	340,418
1967	9,023,736	919,508	3,146,486	2,009,672	2,482,319	1,542,669	1,937,119	728,800	361,637
1968	10,820,410	1,150,218	4,085,826	2,075,617	3,106,958	1,660,370	2,225,122	800,700	393,433
1969	10,205,911	1,326,478	4,674,923	2,459,072	3,604,567	1,595,951	2,182,793	844,300	454,571
1970	8,283,949	1,159,504	5,289,147	2,750,086	3,842,247	1,854,252	2,098,498	916,118	536,026
1971	10,671,654	1,346,765	5,810,774	3,010,294	3,982,722	1,817,019	2,198,146	1,142,700	532,358
1972	11,310,708	1,430,084	6,294,438	3,328,320	3,815,982	1,839,793	2,329,430	1,379,000	695,217
1973	12,681,513	1,574,820	7,082,757	3,596,179	3,949,065	1,957,994	2,163,941	1,602,000	822,020
1974	10,072,662	1,524,874	6,551,840	3,462,847	3,099,777	1,772,515	1,936,685	1,846,000	837,414
1975	8,986,605	1,424,006	6,941,591	2,861,305	3,186,208	1,458,629	1,648,399	1,964,056	814,164
1976	11,497,391	1,640,112	7,841,447	3,402,715	3,868,089	1,590,677	1,705,506	2,024,660	866,240
1977	12,702,782	1,775,445	8,514,522	3,507,881	4,104,216	1,583,917	1,714,240	2,088,369	1,129,700
1978	12,899,202	1,817,457	9,269,153	3,507,930	4,186,364	1,656,115	1,607,467	2,150,984	1,143,831
1979	11,479,993	1,631,661	9,635,546	3,613,458	4,249,743	1,632,289	1,478,512	2,173,200	1,122,918
1980	8,009,841	1,374,359	11,042,884	3,378,433	3,878,553	1,610,287	1,312,914	2,199,200	1,181,659
1981	7,942,916	1,322,780	11,179,962	3,019,370	3,897,007	1,433,743	1,184,205	2,197,000	987,474
1982	6,985,595	1,276,452	10,731,794	3,148,807	4,062,665	1,453,043	1,156,477	2,172,700	1,069,507
1983	9,205,373	1,524,413	11,111,659	3,335.862	4,170,551	1,575,141	1,289,111	2,178,200	1,288,721

TABLE XVI-1. WORLD PRODUCTION OF MOTOR VEHICLES, BY COUNTRY: 1958-1983 (cont.)

Year	Poland	Belgium	Sweden	Yugo-slavia	East Germany	Czecho-slovakia	Nether-lands	Hungary	Austria
1958	27,000	382	91,179	7,696	54,163	58,556	1,586	5,200	19,166
1959	34,500	343	112,394	8,658	67,341	66,662	6,812	4,900	20,187
1960	36,400	256	128,527	15,921	76,000	73,684	19,339	5,600	12,568
1961	35,990	800	131,755	21,254	84,200	77,053	18,592	6,400	13,484
1962	41,129	1,043	151,568	21,197	88,000	81,224	28,577	7,700	12,395
1963	48,388	1,200	167,850	28,898	94,000	70,781	22,362	6,000	10,078
1964	54,853	2,070	184,018	38,692	102,000	55,468	36,182	8,000	7,660
1965	59,800	166,594	205,717	45,452	118,056	90,713	36,047	7,131	5,044
1966	66,975	195,219	199,910	48,834	126,626	113,421	39,993	7,990	4,210
1967	68,359	183,087	214,560	55,641	134,101	133,174	56,749	8,250	3,729
1968	84,921	172,906	244,786	74,106	139,116	150,299	66,523	8,500	4,088
1969	101,800	302,549	271,440	94,983	147,680	158,582	71,659	9,000	5,417
1970	118,100	272,433	310,887	130,563	153,378	169,920	79,219	9,200	3,937
1971	145,700	295,764	317,295	132,368	60,762	176,862	91,312	9,500	6,878
1972	156,100	271,453	305,989	126,412	69,616	182,937	99,666	10,000	6,255
1973	190,400	298,957	378,042	143,826	80,203	197,802	107,452	10,500	6,278
1974	200,878	183,128	368,359	189,728	88,930	200,877	82,081	12,075	4,642
1975	258,300	222,176	366,753	205,567	197,457	211,073	72,098	12,100	7,699
1976	312,100	326,978	367,780	216,071	202,371	215,836	86,561	12,900	8,739
1977	374,400	336,382	286,901	257,762	204,394	197,585	87,853	13,313	8,177
1978	404,261	303,260	305,534	279,759	210,486	218,468	76,197	15,973	5,486
1979	422,134	314,997	354,820	315,110	220,000	228,738	106,335	13,814	9,376
1980	432,100	259,966	298,400	283,744	216,585	233,812	96,435	16,315	16,061
1981	306,700	257,456	313,755	266,423	219,400	229,513	88,003	13,788	14,920
1982	276,351	278,014	349,066	241,316	221,800	224,449	96,050	13,600	15,155
1983	321,400	285,478	396,697	247,978	224,153	230,181	113,825	13,321	12,207

TABLE XVI-1. WORLD PRODUCTION OF MOTOR VEHICLES, BY COUNTRY: 1958-1983 (cont.)

Year	Argentina	Australia	Brazil	India	Korea	Mexico	South Africa	World
1958	26,100	241,324	61,129	26,796	--	38,955	96,254	11,355,197
1959	32,952	263,592	96,243	36,997	--	51,118	98,738	13,870,355
1960	89,338	326,250	133,078	51,126	--	49,807	113,097	16,376,865
1961	136,188	231,651	145,674	53,865	--	62,563	90,660	15,209,431
1962	129,880	329,829	191,057	56,967	--	66,637	106,145	18,202,770
1963	104,899	374,058	174,221	51,416	--	69,135	147,945	20,720,346
1964	166,483	411,750	183,045	67,135	--	90,752	195,756	22,020,434
1965	194,536	407,596	185,155	72,577	--	96,654	174,991	24,567,935
1966	179,453	343,929	224,574	72,530	--	113,807	183,700	24,980,719
1967	175,318	366,547	225,418	70,359	--	126,365	193,600	24,183,786
1968	180,976	418,307	278,473	79,541	--	143,478	211,791	28,610,475
1969	218,590	451,917	349,519	76,215	--	165,164	256,296	30,079,490
1970	219,599	473,790	416,047	82,766	28,819	192,841	297,573	29,707,665
1971	253,640	470,122	516,038	89,110	23,002	210,840	295,682	33,727,142
1972	278,222	466,917	608,985	90,048	18,648	229,766	292,277	35,832,772
1973	311,614	454,190	729,135	97,917	26,314	285,513	342,383	39,214,881
1974	286,312	489,339	858,470	87,889	30,290	350,755	341,927	35,060,915
1975	240,036	456,167	929,805	74,276	36,264	360,678	363,605	33,321,955
1976	193,517	456,216	985,469	85,058	48,292	324,979	300,248	38,618,368
1977	235,356	452,592	919,242	89,145	83,000	280,813	256,801	41,227,398
1978	179,875	384,966	1,062,197	98,846	156,418	384,128	303,723	42,689,091
1979	253,217	461,468	1,127,966	101,273	204,447	444,426	314,067	41,954,523
1980	281,669	364,109	1,165,207	113,326	123,135	490,006	404,756	38,805,473
1981	172,350	391,614	779,836	148,887	133,084	597,118	453,541	37,551,847
1982	132,116	408,570	860,593	152,429	163,484	472,637	411,800	36,399,505
1983	159,175	337,075	896,282	153,638	221,019	285,485	373,281	39,966,429

SOURCE: Motor Vehicle Manufacturers Association of the United States, World Motor Vehicle Data (Detroit: 1984).

TABLE XVI-2. PRODUCTION OF MOTOR VEHICLES IN MICHIGAN AND THE UNITED STATES, SELECTED YEARS: 1925-1984

Year	Cars			Trucks and buses		
	Michigan	United States	Percentage	Michigan	United States	Percentage
	(In thousands)					
1925	1,280	3,581	36	126	342	37
1927	1,460	2,826	52	91	330	28
1929	1,595	4,388	36	82	392	21
1931	675	1,921	35	40	246	16
1935	1,587	3,213	49	148	505	29
1953	2,196	6,135	36	n.a.	n.a.	n.a.
1954	1,768	5,509	32	n.a.	n.a.	n.a.
1955	2,708	7,950	34	n.a.	1,254	n.a.
1956	1,917	5,808	33	n.a.	1,012	n.a.
1957	2,118	6,120	35	180	1,100	16
1958	1,239	4,247	29	153	873	18
1959	1,658	5,599	30	184	1,124	16
1960	2,092	6,703	31	203	1,202	17
1961	1,774	5,522	32	171	1,130	15
1962	2,280	6,943	33	228	1,254	18
1963	2,590	7,644	34	265	1,464	18
1964	2,622	7,745	34	385	1,562	25
1965	3,255	9,335	35	495	1,802	27
1966	3,024	8,605	35	515	1,792	29
1967	2,600	7,413	35	459	1,611	28
1968	3,069	8,849	34	511	1,972	26
1969	2,873	8,224	35	533	1,982	27
1970	2,099	6,550	32	454	1,734	26
1971	2,336	8,584	33	587	2,088	28
1972	2,902	8,828	33	734	2,483	30
1973	3,268	9,667	34	1,012	3,015	34
1974	2,403	7,325	33	897	2,747	33
1975	2,249	6,717	33	757	2,270	33
1976	2,914	8,498	34	1,030	3,000	34
1977	2,852	9,214	31	1,077	3,489	31
1978	2,706	9,177	29	1,288	3,723	35
1979	2,582	8,434	31	996	3,046	33
1980	1,732	6,376	27	443	1,634	27
1981	2,040	6,253	33	460	1,690	27
1982	1,818	5,073	36	577	1,913	30
1983	2,077	6,781	31	697	2,421	29
1984	2,127	7,773	27	886	3,151	28

SOURCE: Bureau of the Census, Manufactures 1905 (Washington, D.C.: Government Printing Office, 1908), Part IV, p. 272, and similar documents for years 1909-1935; Automotive News, Almanac Issue, 1954 through 1972; Ward's Communications, Inc., Wards Automotive Yearbook, 1958 through 1972 (Detroit: annually); Motor Vehicle Manufacturers Association, special release; and the various companies, 1972-1984 Michigan figures.

n.a.: not available.

TABLE XVI-5. UNITED STATES-CANADA TRADE IN AUTOMOTIVE PRODUCTS, U.S. IMPORTS FROM CANADA AND CANADIAN IMPORTS FROM THE UNITED STATES: 1977-1984

(millions of U.S. dollars)

Year	Canadian imports[a]			U.S. imports[b]		
	Vehicles	Parts	Total	Vehicles	Parts	Total
1964	57	577	634	22	49	71
1965	142	738	880	88	139	227
1966	356	1,011	1,367	451	360	811
1967	666	1,216	1,882	920	474	1,394
1968	923	1,684	2,607	1,483	783	2,266
1969	976	2,134	3,110	2,097	959	3,056
1970	894	2,019	2,913	2,038	1,080	3,118
1971	1,319	2,448	3,767	2,511	1,481	3,992
1972	1,579	2,866	4,445	2,778	1,795	4,573
1973	2,082	3,552	5,634	3,061	2,172	5,233
1974	2,573	3,980	6,554	3,482	1,997	5,479
1975	3,064	4,409	7,472	3,726	2,008	5,734
1976	3,339	5,550	8,889	4,840	2,983	7,823
1977	3,712	6,434	10,146	5,636	3,496	9,132
1978	3,771	7,080	10,851	6,165	4,160	10,326
1979	4,801	7,344	12,145	5,685	3,831	9,715
1980	3,950	6,478	10,428	5,695	2,888	8,583
1981	4,218	7,700	11,918	6,917	3,462	10,379
1982	3,030	7,824	10,853	9,001	3,963	12,964
1983	4,855	9,270	14,125	10,877	5,724	16,601
1984	6,272	12,458	18,730	14,652	7,924	22,576

SOURCE: U. S. Department of Commerce, special release.

a. Canadian import statistics from U.S., based on FAS or transaction values, converted to U.S. dollars on the basis of then prevailing exchange rates.
b. U.S. imports from Canada are FAS or transaction values as published by the Bureau of the Census.
p: Preliminary

TABLE XVI-6. WHERE DOMESTIC CARS AND TRUCKS WERE BUILT: 1984 MODELS

Place	Models
United States	Cars
	American Motors
Kenosha, WI	Alliance, Encore
	Chrysler Corporation
Belvidere, IL	Omni, Horizon, Charger, Turismo
Jefferson (Detroit), MI	Aries, Reliant, LeBaron, Dodge 600, Chrysler E Class, New Yorker E, Caravelle
Newark, DE	Aries, Reliant, LeBaron wagon
St. Louis, MO	Daytona, Laser, Aries, Reliant, LeBaron, Dodge 600, Diplomat, Gran Fury, Fifth Avenue
	Ford Motor Company
Atlanta, GA	LTD, Marquis, Thunderbird
Chicago, IL	LTD, Marquis
Dearborn, MI	Mustang, Capri
Kansas City, MO	Tempo, Topaz
Lorain, OH	Thunderbird, XR-7
Metuchen (Edison, NJ)	Escort, Lynx
St. Louis, MO	Grand Marquis, Crown Victoria
Wayne, MI	Escort, Lynx, EXP
Wixom, MI	Lincoln, Mark VII, Continental
	General Motors Corporation
Arlington, TX	Monte Carlo, Cutlass Supreme
Baltimore, MD	Monte Carlo, Bonneville, Grand Prix
Bowling Green, KY	Corvette
Detroit, MI	Cadillac, Olds 88
Doraville, GA	Cutlass Ciera, Century
Fairfax, KS	Chevrolet, Olds 88, LeSabre, Parisienne
Flint, MI	Regal, LeSabre, Electra
Framingham, MA	Celebrity, Ciera
Janesville, WI	Cavalier, Cimarron
Lake Orion, MI	Cadillac (fwd), Olds 98 (fwd)
Lansing, MI	Cutlass Supreme, Olds 88, Olds 98
Leeds, MO	Firenza, Skyhawk
Linden, NJ	Seville, Riviera, Eldorado, Toronado
Lordstown, OH	Cavalier, 2000
Norwood OH	Camaro, Firebird
Oklahoma City, OK	Celebrity, Century
Pontiac, MI	Fiero
Tarrytown, NY	Citation, Phoenix
Van Nuys, CA	Camaro, Firebird
Wentzville, MO	Electra (fwd), Olds 98 (fwd)
Willow Run, MI	Omega, Skylark
Wilmington, DE	Chevette, 1000, Acadian

TABLE XVI-6. WHERE DOMESTIC CARS AND TRUCKS WERE BUILT: 1984 MODELS (cont.)

Place	Models
United States	Cars
	American Honda Motor Co.
Marysville, OH	Accord
	Volkswagen of America
Westmoreland, PA	Rabbit
Canada	
	American Motors
Brampton, Ont.	Eagle
	Ford Motor Company
Oakville, Ont.	Tempo, Topaz
St. Thomas, Ont.	Escort, Lynx, Crown Victoria, Grand Prix
	General Motors Corporation
Oshawa, Ont.	Chevrolet, Celebrity, Parisienne, 6000
Ste. Therese, Que.	Cutlass Supreme, Grand Prix, Bonneville
	Volvo
Halifx, N.S.	Volvo
United States	Trucks
	American Motors
Toledo, OH	Jeep vehicles
	Chrysler Corporation
Belvidere, IL	Rampage pickup
Warren, MI	Light-duty trucks, Ramcharger
	Ford Motor Company
Kansas City, MO	Light trucks
Kentucky truck	Medium, heavy and extra-heavy trucks
Koraine, OH	Econoline, Club wagon
Louisville, KY	Ranger
Norfolk, VA	Light trucks
Michigan Truck (Wayne)	Bronco, light trucks
Twin Cities	Light trucks

TABLE XVI-6. WHERE DOMESTIC CARS AND TRUCKS WERE BUILT: 1984 MODELS (cont.)

Place	Models
United States	Trucks
	General Motors Corporation
Arlington, TX	El Camino, Caballero pickups
Detroit, MI	Commercial, recreational, specialty vehicle chassis
Flint, MI	Chevrolet, GMC pickups, Blazer, Jimmy, Suburban wagons
Janesville, WI	Chevrolet, GMC light trucks
Lordstown, OH	Chevrolet, GMC vans
Moraine, OH	Chevrolet S-10, GMC S-15 trucks
Pontiac, MI	Chevrolet, GMC light and medium-duty trucks, GMC heavy trucks, Chevrolet S-10 and GMC S-15 trucks, buses
Shreveport, LA	Chevrolet S-10, GMC S-15 trucks
St. Louis, MO	Chevrolet, GMC light trucks
	International Harvester
Springfield, OH	Medium and heavy trucks
	Mercedes-Benz Truck Co.
Hampton, VA	Medium and heavy trucks
	Nissan Motor Mfg. Co.
Smyrna, TN	Pickup trucks
Canada	
	Chrsyler Corporation
Windsor, Ont.	Dodge Caravan, Plymouth Voyager minivans, Mini Ram Van, T-van
Pillette Rd. (Windsor)	Dodge Ram Van, Ram Wagon, B-Van
	Ford Motor Company
Ontario Truck (Oakville)	Light trucks
	General Motors Corporation
Oshawa	Chevrolet, GMC pickups
Scarborough, Ont.	Chevy Van, Sportvan, GMC Vandura, Rally
	International Harvester
Chatham, Ont.	Medium and heavy trucks

SOURCE: Automotive News, 1984 Market Data Book.

TABLE XVI-3. PRODUCTION OF MOTOR VEHICLES IN MICHIGAN, BY PLANT, AND IN THE UNITED STATES: 1978-1984

	1978	1979	1980	1981	1982	1983	1984
Dearborn, Ford	232,326	344,135	241,502	171,056	160,075	148,922	158,592
Detroit, Cadillac, Oldsmobile	291,168	261,515	115,424	155,622	156,618	186,231	215,713
Detroit, Chevrolet truck GMC truck	38,059	27,260	18,218	28,416	31,624	36,452	62,843
Detroit, Chrysler, Jefferson Avenue[a]	45,001	--	69,089	204,704	176,384	258,814	235,912
Detroit, Chrysler, Jefferson Avenue Truck[a]	22,856	64,330	8,863	--	--	--	--
Detroit, Chrysler, Lynch Road	133,470	109,007	47,507	15,992	--	--	--
Flint, Buick	382,771	372,676	260,161	297,138	286,937	368,849	396,570
Flint, Chevrolet, GMC	432,238	346,447	171,152	157,886	224,187	293,436	275,406
Hamtramck, Chrysler	253,681	153,186	1,031	--	--	--	--
Kalamazoo, Checker	4,225	4,766	3,197	2,993	2,000	--	--
Lansing, Oldsmobile	382,514	492,834	329,607	448,562	442,054	554,919	177,919
Orion Township	--	--	--	--	--	--	131,949
Pontiac, Pontiac	306,756	285,349	142,984	150,328	106,846	30,634	114,072
Pontiac, GMC truck, Chevrolet truck	256,749	244,829	101,352	113,405	140,279	183,858	238,436
Sterling Heights	--	--	--	--	--	--	18,742
Warren, Chrysler truck	327,422	149,308	77,182	92,025	101,452	135,600	206,852
Wayne, Ford	271,662	160,123	157,134	265,325	204,438	252,794	323,445
Wayne, Ford truck	210,676	163,607	66,358	67,941	79,600	92,695	102,769
Wixom, Ford	173,964	140,096	50,927	64,185	97,620	106,531	168,704
Ypsilanti, GMAD	230,022	258,232	312,938	264,333	184,962	170,721	184,786
TOTAL, car, Michigan	2,707,560	2,581,919	1,731,501	2,040,238	1,817,934	2,077,412	2,127,404
TOTAL, truck, Michigan	1,288,000	995,781	443,125	459,673	577,142	696,546	886,306
TOTAL, car, U.S.	9,176,635	8,433,662	6,375,506	6,253,138	5,073,358	6,781,184	7,773,332
TOTAL, truck, U.S.	3,722,567	3,046,331	1,634,335	1,689,778	1,912,660	2,420,598	3,151,449

SOURCE: The various companies.

a. Converted from car to truck production for the 1978 model year. Car production resumed August, 1981.

TABLE XVI-4. FACTORY SALES OF MOTOR VEHICLES FROM CANADIAN AND U.S. PLANTS, BY CANADIAN, U.S., AND OTHER DESTINATIONS: 1968-1984

	Plants in United States				Plants in Canada				
Year	Exports to Canada	Other Exports	U.S. Domestic	U.S. Total	Exports to U.S.	Other Exports	Canada Domestic	Canada Total	U.S.-Canada Total
					Passenger cars				
1968	288,610	126,399	8,407,149	8,822,158	480,254	36,830	359,195	876,279	9,698,437
1969	286,392	130,847	7,806,476	8,223,715	676,765	35,948	314,890	1,027,603	9,251,318
1970	245,746	113,753	6,187,318	6,546,817	681,872	30,427	206,933	919,232	7,466,049
1971	352,130	110,748	8,121,714	8,584,592	779,769	37,654	258,034	1,075,457	9,660,049
1972	382,463	89,005	8,352,470	8,823,928	836,630	37,293	262,971	1,136,894	9,960,832
1973	476,099	102,699	9,078,849	9,657,647	862,407	41,126	322,506	1,226,039	10,883,686
1974	500,463	109,499	6,721,294	7,331,256	802,370	52,495	316,978	1,171,843	8,503,099
1975	549,353	90,199	6,073,300	6,712,852	713,407	58,149	271,689	1,043,245	7,756,097
1976	562,635	97,167	7,837,801	8,497,603	808,788	75,331	250,525	1,134,644	9,632,247
1977	586,073	102,308	8,512,468	9,200,849	831,994	87,148	236,559	1,155,701	10,356,550
1978	541,552	130,075	8,493,563	9,165,190	764,835	107,037	155,701	1,127,573	10,292,763
1979	582,097	158,991	7,678,138	8,419,226	582,386	92,728	298,060	973,174	9,392,400
1980	488,857	70,864	5,840,305	6,400,026	539,239	86,297	201,588	827,124	7,227,150
1981	454,567	51,398	5,749,375	6,255,340	516,430	102,095	153,612	772,137	7,027,477
1982	320,292	32,489	4,696,403	5,049,184	662,014	12,629	107,846	782,489	5,831,673
1983	505,262	32,577	6,201,384	6,739,223	773,381	19,394	152,972	945,757	7,684,970
1984	561,894	29,560	7,029,722	7,621,176	830,447	21,690	163,065	1,015,202	8,636,378
					Trucks and buses				
1968	47,559	83,428	1,765,091	1,896,078	145,258	31,316	100,160	276,734	2,172,812
1969	60,251	81,745	1,781,177	1,923,179	197,551	30,318	87,300	315,169	2,238,348
1970	53,646	73,125	1,565,669	1,692,440	157,532	32,429	62,118	252,079	1,944,519
1971	69,026	69,812	1,914,308	2,053,146	166,307	29,924	83,107	279,338	2,332,487
1972	94,453	57,983	2,294,371	2,446,807	204,405	23,223	90,595	318,223	2,765,030
1973	120,463	72,412	1,786,813	2,979,688	215,260	27,293	112,974	355,527	3,335,215
1974	167,514	90,173	2,469,626	2,727,313	188,895	39,556	148,048	376,499	3,103,812

TABLE XVI-4. FACTORY SALES OF MOTOR VEHICLES FROM CANADIAN AND U.S. PLANTS, BY CANADIAN, U.S., AND OTHER DESTINATIONS: 1968-1984 (cont.)

	Plants in United States				Plants in Canada				
Year	Exports to Canada	Other Exports	U.S. Domestic	U.S. Total	Exports to U.S.	Other Exports	Canada Domestic	Canada Total	U.S.-Canada Total
					Trucks and buses (cont.)				
1975	133,701	135,701	2,002,758	2,272,160	181,165	47,742	161,158	390,065	2,662,225
1976	128,524	116,855	2,733,670	2,979,049	265,623	44,065	188,226	497,914	3,476,963
1977	135,078	127,423	3,179,020	3,441,521	347,592	47,278	210,614	605,484	4,047,005
1978	138,970	151,621	3,415,648	3,706,239	396,935	51,195	214,169	662,299	4,368,538
1979	158,394	137,231	2,741,081	3,036,706	348,231	43,861	240,983	633,075	3,669,781
1980	86,420	117,055	1,463,808	1,667,283	290,529	47,228	188,211	525,968	2,193,251
1981	89,030	98,282	1,513,140	1,700,452	303,646	58,567	152,313	514,526	2,214,978
1982	70,552	56,707	1,778,181	1,905,440	371,691	15,530	69,503	456,724	2,362,164
1983	106,237	47,474	2,260,186	2,413,897	442,167	10,388	93,000	545,555	2,959,452
1984	150,313	40,679	2,884,133	3,075,325	667,980	8,326	133,906	810,212	3,852,790
				Total motor vehicles					
1968	336,169	209,827	10,172,240	10,718,236	625,512	68,146	459,355	1,153,013	11,871,249
1969	346,649	212,592	9,587,653	10,146,894	874,316	66,266	402,190	1,342,772	11,489,666
1970	299,392	186,878	7,752,987	8,239,257	839,404	62,856	269,051	1,171,311	9,419,568
1971	421,156	180,560	10,036,022	10,637,738	946,076	67,578	341,141	1,354,795	11,992,533
1972	476,916	146,988	10,646,841	11,270,745	1,041,035	60,516	353,566	1,455,117	12,725,862
1973	596,562	175,111	11,865,662	12,637,335	1,077,667	68,419	435,480	1,581,566	14,218,901
1974	667,977	199,672	9,190,920	10,058,569	991,265	92,051	465,026	1,548,342	11,606,911
1975	683,054	225,900	8,076,058	8,985,012	894,572	105,891	432,847	1,433,310	10,418,322
1976	691,159	214,022	10,571,471	11,476,652	1,074,411	119,396	438,751	1,632,558	13,109,210
1977	721,151	229,731	11,691,488	12,642,370	1,179,586	134,426	447,173	1,761,185	14,403,555
1978	680,522	281,696	11,909,211	12,871,429	1,161,770	158,232	469,870	1,789,872	14,661,301
1979	740,491	296,222	10,419,219	11,455,932	930,617	136,589	539,043	1,606,249	13,062,181
1980	575,277	187,919	7,304,113	8,067,309	829,768	133,525	389,799	1,353,092	9,420,401
1981	543,597	149,680	7,262,515	7,955,792	820,076	160,662	305,925	1,286,663	9,242,455
1982	390,844	89,196	6,474,584	6,954,624	1,033,705	28,159	177,349	1,239,213	8,193,837
1983	611,499	80,051	8,461,570	9,153,120	1,215,548	29,782	245,972	1,491,302	10,644,422
1984	712,207	70,239	9,913,855	10,696,501	1,498,427	30,016	296,971	1,825,414	12,489,168

SOURCE: Motor Vehicle Manufacturers Association of the United States, Inc., special release.

TABLE XVI-7. TOTAL EMPLOYMENT IN THE MOTOR VEHICLE INDUSTRY, NARROWLY DEFINED, MICHIGAN AND THE UNITED STATES: 1956-1984

	Employment		
Year	Michigan (000)	United States (000)	Michigan as a percentage of U.S.
1956	411.7	792.5	52
1957	387.7	769.3	50
1958	288.5	606.5	48
1959	303.4	692.3	44
1960	311.2	724.1	43
1961	268.4	632.3	42
1962	299.2	691.7	43
1963	315.8	741.3	43
1964	329.3	752.9	44
1965	364.5	842.7	43
1966	381.9	861.6	44
1967	361.8	815.8	44
1968	382.8	873.7	44
1969	398.7	911.4	44
1970	335.3	799.0	42
1971	353.6	848.5	42
1972	369.5	874.8	42
1973	401.0	976.5	41
1974	366.1	907.7	40
1975	321.2	792.4	41
1976	357.6	881.0	41
1977	386.5	947.3	41
1978	409.6	1,004.9	41
1979	392.7	990.4	40
1980	326.3	788.8	41
1981	319.4	783.9	41
1982	286.5	690.0	42
1983	299.7	753.7	40
1984	319.7	860.1	37

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings, March 1985, Table B-2; Supplement to Employment and Earnings (Washington, D.C.: June 1985); and similar documents for previous years.

TABLE XVI-8. GENERAL MOTORS EMPLOYMENT AND DIRECT COMPENSATION IN MANUFACTURING OPERATIONS IN MICHIGAN: 1975-1984

Plant city	Year	Number of employees[a]	Direct compensation[b] ($000)
Adrian-Tecumseh	1975	825	13,707
	1976	1,083	21,000
	1977	1,255	26,300
	1978	1,427	26,300
	1979	1,443	33,800
	1980	1,285	30,700
	1981	1,618	44,900
	1982	1,537	44,100
	1983	1,782	57,200
	1984	1,961	72,400
Bay City	1975	3,006	46,663
	1976	3,586	65,950
	1977	3,805	79,979
	1978	3,868	88,330
	1979	3,598	79,917
	1980	2,500	75,900
	1981	2,581	74,400
	1982	2,241	64,600
	1983	2,466	78,200
	1984	2,466	85,800
Coopersville	1983	374	6,200
	1984	470	11,600
Flint	1975	59,572	1,014,131
	1976	67,347	1,422,169
	1977	73,562	1,715,752
	1978	76,933	1,865,837
	1979	75,981	1,926,009
	1980	62,200	1,808,800
	1981	65,738	1,800,000
	1982	55,359	1,700,000
	1983	57,990	1,980,000
	1984	61,936	2,350,000
Grand Rapids	1975	6,030	97,383
	1976	6,862	133,658
	1977	7,353	156,518
	1978	7,652	173,752
	1979	8,169	203,694
	1980	7,400	191,200
	1981	8,143	222,000
	1982	6,645	181,000
	1983	7,487	234,900
	1984	8,017	297,900

TABLE XVI-8. GENERAL MOTORS EMPLOYMENT AND DIRECT COMPENSATION IN MANUFACTURING OPERATIONS IN MICHIGAN: 1975-1984 (cont.)

Plant city	Year	Number of employees[a]	Direct compensation[b] ($000)
Kalamazoo	1975	2,682	48,998
	1976	3,244	69,902
	1977	3,668	83,858
	1978	3,725	86,952
	1979	3,831	97,967
	1980	2,666	79,600
	1981	3,239	102,800
	1982	2,730	85,900
	1983	3,072	108,500
	1984	3,310	128,000
Lansing	1975	16,928	287,412
	1976	18,796	399,658
	1977	20,558	471,868
	1978	22,225	525,835
	1979	23,432	583,343
	1980	20,500	547,600
	1981	22,793	682,000
	1982	21,378	655,700
	1983	23,126	842,200
	1984	21,431	867,400
Livonia	1975	6,444	99,900
	1976	8,188	149,200
	1977	8,713	171,400
	1978	8,808	180,800
	1979	8,720	195,600
	1980	6,240	168,800
	1981	7,109	197,000
	1982	6,697	204,300
	1983	7,547	246,300
	1984	7,821	283,700
Milford	1975	1,700	25,435
	1976	2,175	41,900
	1977	2,386	48,200
	1978	2,256	53,400
	1979	2,790	74,500
	1980	2,685	73,700
	1981	2,609	79,300
	1982	2,516	83,400
	1983	2,473	88,700
	1984	2,757	98,500
Pontiac	1975	25,238	410,200
	1976	31,367	625,700
	1977	33,220	733,900
	1978	37,212	849,300
	1979	39,200	926,700
	1980	30,500	836,500
	1981	27,704	824,000
	1982	23,949	747,100
	1983	26,275	814,300
	1984	32,948	1,370,000

TABLE XVI-8. GENERAL MOTORS EMPLOYMENT AND DIRECT COMPENSATION IN MANUFACTURING OPERATIONS IN MICHIGAN: 1975-1984 (cont.)

Plant city	Year	Number of employees[a]	Direct compensation[b] ($000)
Saginaw	1975	19,969	$343,241
	1976	22,661	472,011
	1977	24,307	565,624
	1978	25,765	631,277
	1979	26,127	642,468
	1980	19,500	574,700
	1981	20,755	617,600
	1982	16,831	510,500
	1983	17,503	607,600
	1984	18,982	716,600
Three Rivers	1980	1,055	29,000
	1981	1,840	52,000
	1982	1,919	59,800
	1983	1,935	65,400
	1984	1,935	68,700
Warren	1984	18,279	7,825,000
Ypsilanti	1975	9,710	154,525
	1976	12,352	238,700
	1977	14,691	300,900
	1978	15,303	357,300
	1979	18,446	459,400
	1980	17,270	470,200
	1981	15,854	448,900
	1982	12,844	354,900
	1983	12,274	369,100
	1984	14,521	498,700
Statewide	1981	228,750	n.a.
	1982	178,264	5,400,000
	1983	201,629	6,540,000
	1984	226,507	8,690,000

SOURCE: General Motors Corporation, special release.

NOTE: Separate figures for Detroit are not available. For 1976-1982, figures are estimates that include permanent employees and personnel from other divisions on temporary assignment.

a. Annual averages of monthly wage and salary jobs at GM facilities.
b. Does not include health insurance, pension contributions, supplemental unemployment benefits, unemployment insurance, and other fringe benefits. 1980 direct compensation includes supplemental unemployment benefits.
n.a.: not available.

TABLE XVI-9. NEW PASSENGER CAR AND TRUCK REGISTRATIONS IN MICHIGAN AND THE UNITED STATES, BY NAMEPLATE: 1983 AND 1984

	1983		1984	
Make	Michigan	United States	Michigan	United States
Passenger cars				
AMC[a]	22,284	190,797	20,728	188,602
Chrysler	18,777	254,175	22,148	320,523
Dodge	22,059	307,633	26,182	359,707
Plymouth	16,712	258,684	19,012	281,465
Ford	70,789	1,034,732	81,876	1,285,077
Lincoln	7,021	97,206	13,431	144,278
Mercury	34,372	395,041	36,644	519,701
Buick	53,050	818,256	63,610	918,321
Cadillac	14,678	211,552	16,730	309,678
Chevrolet	72,056	1,310,503	87,020	1,544,565
Oldsmobile	59,598	971,229	61,382	1,038,173
Pontiac	43,721	536,404	59,443	685,347
Other[b]	49,945	2,457,974	44,729	2,522,794
TOTAL	485,062	8,924,186	552,954	10,118,231
Motor trucks				
Chrysler Corp.	13,614	263,687	29,407	503,967
Ford	43,759	942,568	58,364	1,162,001
Chevrolet	42,447	904,672	51,020	1,089,853
G.M.C.	16,471	247,970	20,374	305,196
International	1,670	50,562	2,258	66,173
Jeep truck	3,416	76,453	5,492	148,040
PACCAR	258	15,998	453	26,731
Mack	173	15,038	376	26,617
Volvo-White	132	6,197	196	10,797
Other[c]	4,932	439,448	7,927	689,388
TOTAL	127,078	2,976,556	176,165	4,047,192

SOURCE: Compiled from data supplied by R.L. Polk & Company. Further reproduction not authorized without the express permission of R.L. Polk & Company.

a. Passenger cars manufactured by American Motors Corporation.
b. Domestic and foreign.

TABLE XVI-10. NEW PASSENGER CAR AND NEW TRUCK REGISTRATIONS IN MICHIGAN, BY COUNTY: 1979-1984

County	1979	1980	1981	1982	1983	1984
			Passenger cars			
Alcona	479	328	353	281	370	365
Alger	322	288	261	177	253	277
Allegan	2,761	2,142	2,090	1,522	1,958	2,196
Alpena	1,342	940	882	654	825	1,009
Antrim	609	458	409	371	513	577
Arenac	770	512	526	396	564	561
Baraga	344	306	306	192	272	277
Barry	1,485	1,166	1,080	890	1,220	1,297
Bay	5,954	4,168	4,126	3,147	4,049	4,552
Benzie	483	329	345	290	356	391
Berrien	8,123	6,014	5,534	4,866	6,500	8,012
Branch	1,657	1,109	1,045	838	1,133	1,270
Calhoun	6,391	4,333	4,333	3,549	4,533	4,982
Cass	1,684	1,259	1,280	1,045	1,523	1,524
Charlevoix	870	687	668	560	758	769
Cheboygan	768	561	525	454	571	681
Chippewa	978	893	867	585	712	737
Clare	958	811	849	717	815	872
Clinton	2,241	1,524	1,591	1,320	1,841	1,873
Crawford	423	305	272	239	365	393
Delta	1,265	968	1,039	857	1,066	1,101
Dickinson	1,037	834	753	526	826	921
Eaton	3,607	2,476	2,618	2,037	2,896	3,056
Emmet	947	871	851	654	856	933
Genesee	32,941	22,534	23,047	20,332	27,459	29,797
Gladwin	866	736	682	535	718	714
Gogebic	619	558	487	389	475	459
Grand Traverse	2,903	2,272	2,245	1,910	2,476	2,804
Gratiot	1,647	1,284	1,241	929	1,201	1,308
Hillsdale	1,488	1,025	1,079	850	1,115	1,258
Houghton	994	907	861	716	819	872
Huron	1,727	1,346	1,341	985	1,238	1,395
Ingham	19,915	14,418	14,721	13,553	17,116	19,330
Ionia	2,296	1,606	1,537	1,156	1,625	1,795
Iosco	1,276	989	927	872	1,183	1,149
Iron	505	478	444	322	474	473
Isabella	1,716	1,187	1,291	1,080	1,336	1,378
Jackson	7,058	4,932	4,966	3,896	5,321	5,805
Kalamazoo	10,598	8,584	8,123	6,962	8,656	9,232
Kalkaska	404	307	260	257	327	349

TABLE XVI-10. NEW PASSENGER CAR AND NEW TRUCK REGISTRATIONS IN MICHIGAN, BY COUNTY: 1979-1984 (cont.)

County	1979	1980	1981	1982	1983	1984
Kent	25,627	20,147	18,832	15,866	20,579	23,304
Keweenaw	72	65	50	53	57	71
Lake	220	185	167	143	180	204
Lapeer	3,777	2,513	2,566	1,941	2,764	3,426
Leelanau	431	355	327	332	423	407
Lenawee	4,507	3,105	3,042	2,380	3,301	4,027
Livingston	5,447	3,933	4,155	3,315	4,639	4,971
Luce	287	204	162	136	206	165
Mackinac	396	327	317	253	320	331
Macomb	62,197	46,314	47,491	41,167	50,107	58,809
Manistee	948	699	735	548	697	785
Marquette	2,740	2,287	2,531	1,938	2,692	2,576
Mason	1,086	778	753	574	726	748
Mecosta	1,204	950	906	679	926	999
Menominee	791	627	564	451	593	711
Midland	3,565	2,913	2,961	2,466	3,022	3,052
Missaukee	375	293	293	232	314	342
Monroe	6,149	4,044	4,500	4,005	4,975	5,414
Montcalm	2,330	1,650	1,651	1,236	1,670	1,785
Montmorency	401	270	276	255	300	340
Muskegon	6,289	4,960	4,410	3,405	4,261	4,859
Newaygo	1,183	1,021	930	765	945	994
Oakland	97,597	75,764	75,490	66,959	88,963	100,178
Oceana	877	731	616	454	583	590
Ogemaw	643	508	463	418	543	531
Ontonagon	392	363	309	234	268	292
Osceola	860	603	632	535	644	718
Oscoda	206	135	151	164	172	176
Otsego	723	638	611	503	739	756
Ottawa	7,552	6,022	5,947	4,621	5,816	6,546
Presque Isle	589	409	434	306	395	455
Roscommon	916	682	715	669	813	905
Saginaw	12,796	9,067	9,335	7,765	10,446	12,316
St. Clair	5,969	4,345	4,377	3,597	4,347	5,462
St. Joseph	2,490	1,946	1,867	1,466	1,920	2,376
Sanilac	1,825	1,348	1,279	926	1,222	1,493
Schoolcraft	443	327	295	230	277	276
Shiawassee	4,054	2,664	2,821	2,113	3,026	3,107
Tuscola	2,945	2,156	2,162	1,525	2,166	2,368
Van Buren	2,749	2,156	1,965	1,541	1,883	2,040

TABLE XVI-10. NEW PASSENGER CAR AND NEW TRUCK REGISTRATIONS IN MICHIGAN, BY COUNTY: 1979-1984 (cont.)

County	1979	1980	1981	1982	1983	1984
Washtenaw	15,123	11,325	11,612	10,497	12,584	14,698
Wayne	187,021	131,958	129,433	105,322	136,170	159,851
Wexford	1,031	830	827	563	804	879
State owned	2,169	1,416	943	1,183	1,266	1,877
TOTAL	611,443	448,071	445,758	374,643	485,062	552,954
			Trucks			
Alcona	173	109	73	110	148	183
Alger	180	122	82	102	139	184
Allegan	1,532	775	601	647	947	1,307
Alpena	633	320	228	259	377	546
Antrim	270	161	114	129	231	319
Arenac	337	143	140	188	241	314
Baraga	204	104	92	110	149	175
Barry	716	382	270	344	578	785
Bay	1,764	924	813	1,057	1,545	1,935
Benzie	180	90	75	110	168	215
Berrien	3,029	1,530	1,233	1,559	2,083	3,006
Branch	832	466	419	430	572	685
Calhoun	1,988	1,026	877	1,063	1,463	1,838
Cass	937	406	404	493	877	891
Charlevoix	388	204	132	193	359	398
Cheboygan	335	141	132	187	273	342
Chippewa	489	282	246	285	390	462
Clare	470	282	276	330	441	483
Clinton	966	435	397	519	923	935
Crawford	206	110	73	113	196	272
Delta	542	314	290	399	556	659
Dickinson	586	321	281	248	436	519
Eaton	1,454	736	559	799	1,278	1,499
Emmet	439	230	165	215	358	544
Genesee	7,347	3,566	3,290	4,299	6,795	8,538
Gladwin	396	220	210	247	354	449
Gogebic	324	223	179	178	262	301
Grand Traverse	1,189	772	673	735	991	1,506
Gratiot	736	364	330	365	550	651
Hillsdale	712	347	292	321	530	555
Houghton	401	286	177	200	368	402
Huron	707	411	378	341	507	643
Ingham	5,222	2,513	2,012	2,488	4,051	5,408
Ionia	995	522	462	501	799	930
Iosco	434	257	198	266	405	511

TABLE XVI-10. NEW PASSENGER CAR AND NEW TRUCK REGISTRATIONS IN MICHIGAN, BY COUNTY: 1979-1984 (cont.)

County	1979	1980	1981	1982	1983	1984
Iron	343	234	126	173	315	339
Isabella	718	433	446	455	683	707
Jackson	2,585	1,257	991	1,170	1,735	2,259
Kalamazoo	3,073	1,697	1,399	1,552	2,439	2,975
Kalkaska	306	212	209	240	256	316
Kent	8,125	4,362	3,212	4,096	6,615	9,329
Keweenaw	27	25	6	14	25	30
Lake	135	72	68	58	78	122
Lapeer	1,519	650	530	735	1,183	1,941
Leelanau	157	93	73	107	149	224
Lenawee	1,629	778	656	878	1,261	1,656
Livingston	1,770	810	718	964	1,548	1,910
Luce	126	95	58	84	148	139
Mackinac	183	104	91	117	162	184
Macomb	12,206	7,984	8,086	9,408	12,449	17,001
Manistee	389	224	153	249	319	426
Marquette	1,238	760	665	683	1,100	1,385
Mason	489	239	169	228	297	373
Mecosta	535	312	299	361	482	528
Menominee	374	232	169	151	235	368
Midland	1,060	563	529	684	1,016	1,237
Missaukee	233	152	143	132	204	236
Monroe	1,658	973	940	1,272	1,711	2,180
Montcalm	1,043	546	476	589	862	1,037
Montmorency	198	92	61	95	151	196
Muskegon	2,310	1,258	938	962	1,656	2,337
Newaygo	575	327	299	338	444	572
Oakland	15,771	8,951	7,874	10,086	15,964	24,217
Oceana	510	281	183	209	283	335
Ogemaw	343	190	162	205	282	352
Ontonagon	189	153	121	105	143	157
Osceola	481	252	255	288	360	437
Oscoda	111	54	40	72	82	118
Otsego	434	234	208	218	344	454
Ottawa	2,839	1,435	1,198	1,421	2,246	3,129
Presque Isle	297	156	130	145	182	263
Roscommon	344	236	188	229	314	415
Saginaw	3,488	1,880	1,631	1,990	3,164	4,163
St. Clair	1,861	1,009	923	1,019	1,449	2,233
St. Joseph	1,145	649	544	662	952	1,120

TABLE XVI-10. NEW PASSENGER CAR AND NEW TRUCK REGISTRATIONS IN MICHIGAN, BY COUNTY: 1979-1984 (cont.)

County	1979	1980	1981	1982	1983	1984
Sanilac	828	430	351	377	507	689
Schoolcraft	213	136	105	119	184	205
Shiawassee	1,479	676	644	683	1,183	1,451
Tuscola	1,226	649	567	653	1,051	1,242
Van Buren	1,489	745	593	600	908	1,037
Washtenaw	3,264	1,797	1,567	2,131	3,013	4,124
Wayne	27,721	19,891	16,783	23,768	25,711	40,427
Wexford	456	238	226	247	324	456
State owned	647	770	453	307	569	744
TOTAL	144,606	83,620	72,429	91,159	127,078	175,421

SOURCE: R.L. Polk & Co., Motor Statistical Division, special release.

XVII. TRANSPORTATION

The Interstate Commerce Commission in its various publications, especially *Transport Statistics in the United States*, gives extensive information about railroads. The Association of American Railroads also collects railway statistics.

Data on the Michigan highway system are obtained from the reports of the Michigan State Highway Commission. Information on drivers' licenses and the registration of motor vehicles is given in the reports of the Michigan Department of State. The Michigan Department of State Police collects statistics on the number of motor vehicle traffic accidents in Michigan. The Bureau of Public Roads of the U.S. Department of Commerce publishes an annual report, *Highway Statistics*, that gives a great deal of information about the nation's public roads.

The Federal Aviation Agency releases a number of publications, including the *FAA Statistical Handbook of Aviation*, *FAA Air Traffic Activity*, and *Census of U.S. Civil Aircraft*, which contain a wealth of information pertaining to aviation activities.

Information regarding freight traffic on Michigan waterways can be found in *Waterborne Commerce of the United States*, a publication of the Corps of Engineers of the U.S. Department of the Army.

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TABLE XVII-1. DISTRIBUTION OF MICHIGAN TRANSPORTATION FUND, FISCAL YEARS: 1963-1984

(Millions of dollars)

Fiscal year	State trunkline fund	Comprehensive transportation fund	Counties	Munici-palities	Total
1963	106	--	79	41	226
1964	111	--	83	43	237
1965	118	--	88	45	251
1966	125	--	93	48	266
1967	129	--	96	50	309
1968[a]	148	--	104	57	309
1969	164	--	122	71	357
1970	175	--	129	76	380
1971	181	--	134	79	394
1972[b]	193	--	143	84	420
1973	215	18	164	94	491
1974	231	21	185	103	540
1975	228	22	183	102	537
1976[c]	277	27	223	125	652
1977	246	23	198	110	578
1978	249	24	201	112	586
1979[d]	272	59	245	136	712
1980[e]	260	56	236	131	684
1981	239	52	217	121	628
1982	231	50	210	117	608
1983	247	65	231	124	667
1984	278	79	280	157	794

SOURCE: The Michigan State Transportation Commission, special release.

a. Change in registration fees and motor fuel taxes
b. Change in gasoline tax.
c. Covers 7/1/75 to 9/30/76.
d. Change in motor fuel taxes.
e. Change in diesel fuel tax.

NOTF: Following is a chronology of Michigan motor vehicle taxes and fees.

1905 - Public Act 196 of 1905 - License Plates
Rate: $2.00 per automobile (not annually).
Manufacturers get duplicates at 50 cents each.
License transfers are $1.00 each.
Chauffeurs pay $1.00 for an operator's license.
Disposition: After deduction of administrative charges, the balance is to be applied to furthering good roads for the benefit of the State at large.

1907 - Public Act 304 of 1907. Change in fees.
Rate: $1.00 per car and 50 cents for annual renewals.
Transfers are $1.00.
Manufacturers pay $5.00 for five sets of plates and 50 cents for duplicates.

NOTE: (cont.)

1909 - Public Act 318 of 1909. Change in fees.
Rate: $3.00 per car annually and $1.00 for duplicates.
Transfers are $1.00.
Manufacturer pays $10.00 for first plates and $2.00 for each duplicate set.
Chauffeurs pay $2.00 annually.
Disposition: To State General Fund.

1916 - Public Act 302 of 1915. Effective January 1, 1916. Change in fees.
Rate: Cars operated by gas or steam - 25 cents per horsepower plus 25 cents per 100 pounds of weight. Electric cars, $1.00 per horsepower plus 25 cents per 100 pounds. Trucks, gas or steam, 15 cents per horsepower plus 15 cents per 100 pounds. Trucks, electric, 50 cents per horsepower and 25 cents per 100 pounds.
Duplicate plates $1.00.
Annual renewals required at same rates as above.
Manufacturers or dealers pay $50.00 for the first five cars, and $10.00 each thereafter.
Transfers $1.00 each.
Disposition: To the counties, 50% of the license plate fees, divided in proportion to their origin. Balance to State Highway Department.

1919 - Public Act 383 of 1919. Change in fees.
Rate: Changed to 25 cents per horsepower plus 35 cents per 100 pounds on all classes of automobiles.
Public Act 368 of 1919. Operators License Act.
Rate: 50 cents for license to drive
Disposition: To General Fund.

1925 - Public Act 1 of 1925. Change in fees.
Rate: Passenger cars - 55 cents per 100 pounds of weight.
Trucks - 65 cents per 100 pounds up to 2,500 pounds.
80 cents per 100 pounds from 2,500 to 4,000 pounds.
$1.00 per 100 pounds from 4,000 to 6,000 pounds.
$1.25 per 100 pounds over 6,000 pounds.
Trailers - 50 cents and $1.00. Motorcycles $5.00. Motor bicycles $2.50, transfers $1.00.
Disposition: $6,000,000 of weight tax to counties on basis of origin. Balance to State Highway Fund.

1925 - Public Act 2 of 1925. Gasoline Tax.
Rate: Two cents per gallon on gasoline used by motor vehicles.
Disposition: All to State Highway Department except $1,500,000 to counties in 1925 and $2,000,000 to counties in 1926 and annually thereafter.

1927 - Public Act 150 of 1927. Change in Gasoline Tax.
Rate: 3 cents per gallon.
Disposition: To counties $2,000,000 per year. Also an amount equal to 1/2 the weight tax, minus $6,000,000. This is divided, 7/8 on the basis of origin of the weight tax and 1/83 of 1/8 to each county. $2,000 per mile of city and village trunkline maintenance. Balance to State Highway Fund.

NOTE: (cont.)

1931 - Publc Act 130 of 1931. McNitt Act.
- Apportions to counties for maintenance and improvement of McNitt Roads, payable out of gas tax.
  - 1932 - $2,000,000
  - 1933 - $2,500,000
  - 1934 - $3,000,000
  - 1935 - $3,500,000
  - 1936 - $4,000,000 and annually thereafter.
- Public Act 91 of 1931. Change in operator's and chauffeur's licenses.
- Rate: $1.00 for operators, $2.00 for chauffeurs. Operator license renewal every three years. Chauffeurs license renewable annually.

1934 - Public Act 7 of 1934. Change weight tax.
- Rate: Passenger cars 35 cents per 100 pounds.
  - Trucks 65 cents up to 2,500 pounds.
    - 80 cents up to 2,500 to 4,000 pounds.
    - $1.00 - 4,000 to 6,000 pounds.
    - $1.25 - over 6,000 pounds.
- Disposition: To counties 100 percent.

1947 - Public Act 319 of 1947. Diesel fuel tax.
- Diesel fuel tax at 5 cents per gallon.
- Disposition: To State Highway Fund.

1951 - Public Act 54 of 1951. Change in fuel tax rates.
- Gasoline tax increased to 4-1/2 cents per gallon.
- Diesel Fuel tax increased to 6 cents per gallon.
- Disposition: To Motor Vehicle Highway Fund
  - Distribution: 37 percent to counties
    - 19 percent to cities.
    - 44 percent to State Trunkline Fund
- Public Act 55 of 1951. Change registration fees.
- Rate: Trucks - 65 cents per 100 pounds for 0-2,500 pounds to $2.00 per 100 pounds for over 15,000 pounds.
  - Road Tractor or truck tractor - 65 cents per 100 pounds for 0-2,500 pounds to $2.00 per 100 pounds for over 10,000 pounds.

1953 - Public Act 147 of 1953. Liquid Petroleum Gasoline tax rate.
- Liquid Petroleum Gasoline taxed at 4-1/2 cents per gallon.
- Disposition: To Motor Vehicle Highway Fund.

1967 - Public Act 3 of Extra Session of 1967. Changes registration fees.
- Rate: Automobiles - 55 cents per 100 pounds. Minimum fee of $12.00.
  - Trucks - from 80 cents per 100 pounds for 0-2,500 pounds to $2.50 per 100 pounds for 15,000 pounds and over.
  - Road or truck tractor - elected gross weight from $150 for 0-24,000 pounds to $980 for 130,000 pounds and over.
- Disposition: To Motor Vehicle Highway Fund.

1967 - Public Act 5 of Extra Session of 1967. Change fees.
- Gasoline tax increased to 7 cents per gallon.
- Diesel Fuel tax increased to 7 cents per gallon.
- Liquid Petroleum Gasoline tax increased to 7 cents per gallon.

1969 - Public Act 309 of 1969. Change fees.
- Rate: Road or truck tractor - elected gross weight.
  - From $243 for 0-24,000 pounds to $1,660 for 160,001 pounds and over.
- Disposition: Motor Vehicle Highway Fund.

NOTE: (cont.)
1972 - Public Act 327 of 1972. Change fees.
Gasoline tax increased to 9 cents per gallon
Liquid Petroleum Gasoline tax increased to 9 cents per gallon.
Diesel tax stays at 7 cents.
Disposition: To Motor Vehicle Highway Fund.
1978 - Public Act 426 of 1978. Effective January 1, 1979. Change in fees.
Gasoline tax increased to 11 cents per gallon.
Diesel Fuel tax increased to 9 cents per gallon.
1978 - Public Act 427 of 1978. Changes in fees.
Rate: Automobile registration from $20 for 0-3,000 pounds to $74 for 10,000 pounds and 74 cents per 100 pounds over 10,000 pounds. Trucks - from $1.08 per 100 pounds for 0-2,500 pounds to $3.38 per 100 pounds for 15,001 pounds and over. Road or truck tractor - elected gross weight. From $243 for 0-24,000 pounds to $1,660 for 160,001 pounds and over.
Disposition: To Michigan Transportation Fund
Distribution: 19 percent to cities and villages
34.3 percent to counties
46.7 percent to Department of Transportation
(17.78 percent to comprehensive Transportation)
(82.22 percent to Trunkline Fund)
1980 - Public Acts 117, 118, 119, of 1980. Change in fees.
Diesel Fuel tax increased to 11 cents per gallon.
Motor carrier may receive 6 cents per gallon discount by purchasing permit ($92 for Michigan resident - $12 for non-resident)
Carriers not purchasing diesel fuel in Michigan must report and pay a road tax equivalent to the 5 cents tax paid by carriers licensed within the State. Provisions sunset on May 1, 1981.
Continued by Public Act 16 of 1981, Public Act 128 of 1982.
Sunset repealed by Public Act 441 of 1982.

Public Act 153 of 1980. Change in fees.
Rate: Reduces truck GVW fee for 145,001-160,000 pounds from $1,512.00 to $1,479.00 and over 160,000 pounds from $1,660.00 to $1,594.00.

Public Act 333 of 1980. Gasohol Tax rate.
Gasohol (as defined) taxed at 6 cents per gallon from December 23, 1980 through December 31, 1982, at 8 cents for 1983 calendar year, at 9 cents for 1984 calendar year, and 11 cents for 1985 calendar year and thereafter.

1982 - Public Act 435 of 1982. Gasohol Tax rate.
Gasohol taxed at 6 cents per gallon through 1984 calendar year, 8 cents for 1985 calendar year, 9 cents for 1986 calendar year and 11 cents for 1987 and thereafter.
Public Act 437 of 1982. Change in tax rate.
Effective January 1, 1983, tax rate for all fuels shall be a minimum of 11 cents per gallon or the tax rate calculated using the Federal maintenance figure for the most recent preceding calendar year divided by the 1980 maintenance index figure, times the gallonage figure for the year ending September 30, 1980 divided by the gallonage figure for the fiscal year preceding the year for which the tax is being calculated, times 12 cents. Beginning January 1, 1985, the tax rate shall remain as the tax rate imposed on December 31, 1984.

Gasohol Tax rate revised. Rate imposed for gasohol blended with alcohol from Michigan or a state with an equivalent tax reduction - through December 31, 1984 - five cents less than the motor fuel tax rate, three cents less in calendar 1985 and two cents less in 1986. Effective April 1, 1983, rate reduced to four cents less through December 31, 1984 and two cents less for 1985, due to imposition of federal tax on gasohol. Gasohol tax rate for gasohol blended with alcohol from state without equivalent tax reduction - through December 31, 1984 - one cent less than the motor fuel tax rate.

Disposition: To Michigan Transportation Fund.

Public Act 438 of 1982. Revision of Distribution of Michigan Transportation fund. Total of revenues to Michigan Transportation Fund - Less: Administrative costs, 1.023% of net Gasoline Tax to Waterways Fund, $3.5 million to Mackinac Bridge Authority, 10% of the balance to the Comprehensive Transportation Fund, and $5.0 million to the Critical Bridge Fund. The balance is distributed to the State Trunkline Fund, 41.9% for January 1, 1983 - September 30, 1983 and 39.1 percent for October 1, 1983 - September 30, 1985, to County Road Commissions, 37.4% for January 1, 1983 - September 30, 1983 and 39.1 percent for October 1, 1983 - September 30, 1985, to Cities and Villages, 20.7% for January 1, 1983 - September 30, 1983 and 21.8 percent for October 1, 1983 - September 30, 1985. Distribution after September 30, 1985 to be determined by study.

1982 - Public Act 439 of 1982. Change in fees.

Rate: Passenger registrations on weight tax schedule from $23.00 for 0-3,000 pounds to $85.00 for 9,501-10,000 pounds and .85 per 100 pounds over 10,000 pounds. Trucks from $1.40 per 100 pounds for 0-2,500 pounds to $4.39 per 100 pounds for 15,001 pounds and over. Road or truck tractor - elected gross weight - from $316.00 for 0-24,00 pounds to $2,072 over 160,000 pounds.

Effective October 1, 1983, new vehicles other than commercial to be registered at .4% of the purchase price for the first year and on a descending scale of 90% of the previous year's rate for the second, third and fourth year. After the fourth year, the rate remains constant.

Disposition: To Michigan Transportation Fund.

1983 - Public Act 165 of 1982. Change in fees.

Rate: After September 30, 1983, each passenger vehicle of the 1984 of subsequent model year is taxes for the first year on basis of list price at $30 for $0-$6,000 list price to $148.00 for $29,000-$30,000 list price. More than $30,000 list price taxed at 0.5% of the list price. Second, third, and fourth year taxed at 90% of the previous year's rate. After the fourth year, the rate remains constant.

TABLE XVII-3. MOTOR VEHICLE REGISTRATION IN MICHIGAN, BY TYPE AND COUNTY: FISCAL YEAR ENDING 30 SEPTEMBER 1984

County	Passenger	Commercial	Trailer	Motorcycle	Total
Alcona	5,828	2,316	1,521	257	9,922
Alger	4,204	2,174	989	340	7,707
Allegan	42,350	16,505	8,522	2,794	70,171
Alpena	16,764	6,846	4,214	769	28,593
Antrim	9,479	3,439	2,385	575	15,878
Arenac	7,685	3,371	2,185	407	13,648
Baraga	3,842	1,878	788	198	6,706
Barry	23,097	8,872	5,182	1,683	38,834
Bay	64,089	17,298	14,223	2,995	98,605
Benzie	6,384	2,481	1,651	403	10,919
Berrien	89,852	25,452	13,486	4,539	133,329
Branch	19,776	8,071	5,099	1,442	34,386
Calhoun	75,998	19,962	12,589	4,504	112,953
Cass	24,629	9,535	4,782	1,529	40,475
Charlevoix	11,081	4,321	2,514	618	18,534
Cheboygan	11,122	4,534	3,010	704	19,370
Chippewa	13,080	5,922	3,465	725	23,192
Clare	12,173	5,209	3,222	624	21,228
Clinton	28,361	9,924	6,271	1,936	46,492
Crawford	5,241	2,250	1,334	221	9,046
Delta	19,925	8,596	5,720	1,225	35,466
Dickinson	14,120	5,898	3,418	855	24,291
Eaton	46,058	13,114	8,987	3,017	71,176
Emmet	13,717	5,007	2,718	715	22,157
Genesee	249,857	53,418	37,416	11,050	351,741
Gladwin	10,270	4,437	3,013	545	18,265
Gogebic	8,779	3,878	1,976	410	15,043
Gd. Traverse	35,584	10,282	7,596	1,754	55,216
Gratiot	20,101	7,593	4,940	1,386	34,020
Hillsdale	20,856	8,656	4,739	1,411	35,662
Houghton	15,505	5,430	2,257	783	23,975
Huron	19,654	8,408	5,005	1,144	34,211
Ingham	151,230	32,694	18,181	7,625	209,730
Ionia	24,861	9,053	5,319	1,738	40,971
Iosco	15,474	5,403	3,897	871	25,645
Iron	7,077	3,625	1,827	352	12,881
Isabella	21,533	8,018	4,681	1,331	35,563
Jackson	78,413	21,458	12,872	4,123	116,866
Kalamazoo	119,614	26,294	16,071	5,869	167,848
Kalkaska	6,025	3,550	2,025	412	12,012

TABLE XVII-3. MOTOR VEHICLE REGISTRATION IN MICHIGAN, BY TYPE AND COUNTY: FISCAL YEAR ENDING 30 SEPTEMBER 1984 (cont.)

County	Passenger	Commercial	Trailer	Motorcycle	Total
Kent	270,856	59,956	47,109	13,237	391,158
Keweenaw	954	354	167	49	1,524
Lake	3,899	1,876	980	158	6,910
Lapeer	35,035	12,523	6,772	2,363	56,693
Leelanau	7,991	2,829	2,039	384	13,243
Lenawee	47,680	15,666	9,153	2,856	75,355
Livingston	55,576	15,144	9,207	2,938	82,865
Luce	2,960	1,703	1,085	134	5,882
Mackinac	4,972	2,368	1,339	297	8,976
Macomb	449,314	62,419	42,917	12,940	567,590
Manistee	12,007	4,469	2,780	575	19,831
Marquette	33,549	12,422	5,964	2,230	54,165
Mason	13,387	5,170	3,039	865	22,461
Mecosta	14,506	5,816	3,371	777	24,470
Menominee	13,187	5,761	3,440	813	23,201
Midland	44,387	10,530	9,459	2,227	66,603
Missaukee	5,241	2,848	1,534	305	9,928
Monroe	71,244	20,190	13,171	3,815	108,420
Montcalm	24,667	9,639	5,864	1,491	41,661
Montmorency	4,367	2,082	1,257	209	7,915
Muskegon	86,267	21,889	15,140	5,204	128,500
Newaygo	17,646	7,979	4,553	1,256	31,439
Oakland	655,330	97,650	60,765	19,419	833,164
Oceana	10,645	4,984	2,323	689	18,641
Ogemaw	9,986	5,018	3,089	547	18,640
Ontonagon	4,503	2,289	1,263	223	8,277
Osceola	9,631	4,418	2,325	546	16,920
Oscoda	3,884	1,953	1,136	196	7,169
Otsego	8,552	3,645	2,152	456	14,805
Ottawa	91,300	213,276	18,992	5,449	139,017
Presque Isle	6,875	3,406	1,855	354	12,490
Roscommon	10,157	3,701	2,792	484	17,134
Saginaw	123,322	27,353	20,891	4,773	176,339
St. Clair	75,377	20,199	11,820	3,475	110,871
St. Joseph	30,334	11,093	6,093	2,106	49,626
Sanilac	20,074	7,942	4,247	1,179	33,442
Schoolcraft	4,168	2,081	1,209	276	7,734
Shiawassee	36,515	12,182	7,178	2,365	58,240
Tuscola	26,428	11,816	7,604	1,881	49,731
Van Buren	33,141	12,707	5,856	1,951	53,635

TABLE XVII-3. MOTOR VEHICLE REGISTRATION IN MICHIGAN, BY TYPE AND COUNTY: FISCAL YEAR ENDING 30 SEPTEMBER 1984 (cont.)

County	Passenger	Commercial	Trailer	Motorcycle	Total
Washtenaw	140,974	25,649	13,541	5,995	186,159
Wayne	1,203,525	164,448	96,334	30,271	1,494,578
Wexford	13,456	5,017	3,434	721	22,628
Nonresident	29,821	13,667	15,456	255	59,199

SOURCE: Michigan Department of State, special release.

TABLE XVII-4. MOTOR VEHICLE REGISTRATION IN MICHIGAN, BY TYPE: 1979-1984

Type	1979	1980	1981	1982	1983	1984
Passenger	5,162,138	5,220,972	4,848,924	5,075,091	5,101,748	5,143,379
Commercial	1,122,898	1,095,634	1,047,504	1,095,057	1,121,822	1,153,200
Trailer	775,261	760,533	721,381	778,374	726,510	730,790
Motorcycle	251,210	254,129	243,858	230,794	219,929	212,613
TOTAL	7,311,507	7,331,268	6,861,667	7,179,316	7,170,009	7,239,982

SOURCE: Michigan Department of State, special release.

TABLE XVII-5. MOTOR VEHICLE ACCIDENTS AND MILEAGE AND DEATH RATE IN MICHIGAN: 1947-1983

Year	Deaths	Injuries	Accidents	Estimated mileage (millions)	Death rate[a]
1947	1,447	38,195	137,619	17,661.1	8.2
1948	1,512	40,892	140,172	19,069.2	7.9
1949	1,441	41.647	143,197	19,990.4	7.2
1950	1,605	45,734	161,750	21,494.5	7.5
1951	1,640	48,418	176,587	22,668.1	7.2
1952	1,736	49,119	160,829	23,093.1	7.5
1953	1,905	57,834	184,174	25,346.9	7.5
1954	1,793	56,444	185,534	26,041.2	6.9
1955	2,016	62,234	196,812	28,282.5	7.1
1956	1,746	61,158	197,995	28,429.3	6.1
1957	1,548	60,067	191,915	29,252.2	5.3
1958	1,382	57,767	177,934	29,411.3	4.7
1959	1,473	64,873	198,771	30,679.0	4.8
1960	1,604	91,026	209,724	31,842.4	5.0
1961	1,567	93,350	199,973	32,101.5	4.9
1962	1,574	108,143	233,078	34,498.0	4.6
1963	1,887	126,896	261,794	36,452.2	5.2
1964	2,122	144,623	284,444	38,617.6	5.5
1965	2,136	155,258	310,598	40,857.4	5.2
1966	2,298	156,694	302,880	43,940.1	5.2
1967	2,137	151,297	299,004	45,053.6	4.7
1968	2,392	160,413	305,495	48,047.4	5.0
1969	2,487	175,400	331,223	50,904.9	4.9
1970	2,177	161,719	313,715	53,148.1	4.1
1971	2,152	157,664	314,015	55,539.7	3.9
1972	2,258	178,929	359,745	57,817.1	3.9
1973	2,213	169,485	350,864	58,478.4	3.8
1974	1,825	141,132	324,763	55,748.7	3.4
1975	1,811	147,299	333,560	56,260.5	3.2
1976	1,955	162,894	365,600	61,827.4	3.2
1977	1,950	166,389	374,751	64,800.0	3.0
1978	2,076	169,202	389,193	67,375.0	3.1
1979	1,849	162,571	366,435	64,882.0	2.9
1980	1,774	144,972	315,594	61,190.0	2.9
1981	1,589	136,455	302,831	62,000.0	2.6
1982	1,417	130,061	294,971	61,321.7	2.3
1983	1,331	135,811	300,797	63,560.1	2.1

SOURCE: Michigan Department of State Police, Michigan Traffic Accident Facts, 1983 (Lansing: 1984).

a. Deaths per 100 million miles of travel.

TABLE XVII-2. EXISTING MUNICIPAL AND RURAL ROAD MILEAGE, BY TYPE AND BY GOVERNMENTAL LEVEL WITH PRIMARY JURISDICTION, MICHIGAN AND THE UNITED STATES: 1974-1983

		Rural						
		Type			Governmental level with primary jurisdiction			
Year	Municipal	Surfaced	Non-surfaced	Total	State	Local	Federal[a]	Total rural and municipal
				Michigan				
1974	19,916	81,935	16,740	98,675	8,243	87,972	2,460	118,591
1975	19,982	82,771	16,037	98,808	8,300	88,048	2,460	118,790
1976	20,053	83,624	15,321	98,945	8,316	88,169	2,460	118,998
1977	20,097	48,062[b]	51,006[b]	99,068	8,336	88,272	2,460	119,165
1978	20,190	48,264	50,905	99,169	8,345	88,364	2,460	119,359
1979	20,274	49,993	49,813	99,806	8,800	88,546	2,460	120,080
1980	22,257	n.a.	n.a.	91,979	7,739	84,240	0	117,236
1981	25,120	n.a.	n.a.	92,276	7,715	84,561	0	117,396
1982	25,145	n.a.	n.a.	92,280	7,697	84,583	0	117,425
1983	25,193	n.a.	n.a.	92,274	7,697	84,577	0	117,467
				United States				
1974	637,655	2,452,247	725,905	3,178,152	706,295	2,247,709	224,148	3,815,807
1975	639,550	2,483,355	715,241	3,198,596	710,797	2,260,544	227,255	3,838,146
1976	648,321	2,508,903	700,132	3,209,035	711,406	2,263,788	233,841	3,857,356
1977	687,328	2,498,428	681,411	3,179,839	702,215	2,235,670	242,147	3,867,400[c]
1978	694,655	2,534,409	655,999	3,190,408	704,421	2,255,526	230,850	3,885,452
1979	694,274	2,498,282	725,428	3,223,710	697,821	2,281,353	244,371	3,917,819
1980	624,053	n.a.	n.a.	3,331,334	701,846	2,269,770	262,010	3,955,387
1981	632,013	n.a.	n.a.	3,220,684	725,850	2,236,344	256,257	3,852,697
1982	640,556	n.a.	n.a.	3,225,740	825,385	2,139,790	260,565	3,866,296
1983	662,350	n.a.	n.a.	3,217,288	817,206	2,137,960	262,122	3,879,638

SOURCE: Federal Highway Administration, Highway Statistics, 1969 through 1983 (Washington, D.C.: annually), Tables HM-10 (1983).

a. Comprises mileage of roads not forming a part of state or local highway systems.

b. The decrease in surfaced roads in Michigan is due to the surface type reclassification of approximately 36,000 miles of county roads.

c. 233 miles were unclassified by surface.

TABLE XVII-6. NUMBER OF MOTOR VEHICLE TRAFFIC ACCIDENTS, PERSONS KILLED AND PERSONS INJURED, IN MICHIGAN, BY TYPE OF ACCIDENT: 1983

	Number of accidents				Number of persons			
						Injured		
Type of accident	Fatal	Injury	Property damage	Total	Killed	Incapacitated	Nonincapacitated	Possibly[a]
Motor vehicle:								
Overturned	100	5,471	3,582	9,153	107	1,723	3,053	2,567
Other noncollision	18	617	1,248	1,883	19	206	291	182
Motor vehicle collision with:								
Pedestrian	231	3,964	131	4,326	234	1,452	1,534	1,253
Motor vehicle in transport	441	57,387	127,226	185,054	519	10,605	24,223	59,440
Motor vehicle - other roadway	9	20	19	48	11	20	14	31
Parked motor vehicle	18	2,746	23,963	26,727	19	456	1,438	1,545
Railroad train	15	112	112	239	22	50	50	46
Pedalcyclist	46	3,618	524	4,188	46	796	1,784	1,267
Animal	1	614	20,732	21,347	1	80	295	357
Fixed object	328	16,176	30,397	46,901	351	4,111	9,009	7,705
Other object	2	166	763	931	2	38	94	96
TOTAL	1,209	90,891	208,697	300,797	1,331	19,537	41,785	74,489

SOURCE: Michigan Department of State Police, Michigan Traffic Accident Facts 1983.

a. No visible injury but complaint of pain or momentary unconciousness.

TABLE XVII-8. NUMBER OF AIRCRAFT LANDING FACILITIES, ACTIVE PILOTS, AND ACTIVE CIVIL AIRCRAFT IN MICHIGAN: 1 JANUARY 1962-1983

			Active civil aircraft		
				General aviation	
Year	Aircraft landing facilities[a]	Active pilots[b]	Air carrier	Multiengine	All other
1962	216	12,664	25	347	2,785
1963	226	13,030	23	374	2,896
1964	226	13,535	27	421	2,983
1965	235	15,235	34	438	3,047
1966	241	16,830	39	445	3,260
1967	242	19,338	45	550	3,614
1968	251	21,459	53	611	3,983
1969	278	24,214	44	688	4,245
1970	302	25,706	38	721	4,597
1971	305	25,836	--	--	5,526[c]
1972	376	26,152	--	--	5,511[c]
1973	383	26,585	--	--	n.a.
1974	401	24,409	--	--	6,101[c]
1975	403	24,562	--	--	6,216[c]
1976	400	23,822	--	--	6,254[c]
1977	421	n.a.	--	--	7,494[c]
1978	413	25,317	--	--	6,818[c]
1979	418	25,631	--	--	7,279[c]
1980	413	26,102	--	--	7,243[c]
1981	419	25,594	--	--	7,430[c]
1982	417	22,364	--	--	7,065
1983	422	20,136	--	--	7,079

SOURCE: Federal Aviation Administration, FAA Statistical Handbook of Aviation, 1963 through 1983 (Washinton, D.C.: annually), Tables 3.5 7.12, and 8.6 (1981).

a. Civil and military airports and airfields including seaplane bases and heliports. Only those military airports are included which have joint civil use.
b. Represents active pilot certificates held.
c. Total active civil aircraft.
n.a.: not available.

TABLE XVII-9. NUMBER OF AIRCRAFT LANDING FACLITIES IN MICHIGAN AND THE UNITED STATES, BY LENGTH OF LONGEST RUNWAY: 1 JANUARY 1966 AND 1978 AND 31 DECEMBER 1983

Item	Length of longest runway, in feet Under 3,000	3,000 to 3,999	4,000 to 5,999	6,000 to 9,999	10,000 and over	Total
1 January 1966						
Michigan	128	70	29	6	8	241
United States	5,920	1,686	1,281	405	250	9,542
1 January 1978						
Michigan	277	80	36	16	4	413
United States	8,940	2,503	1,773	641	260	14,117
31 December 1983						
Michigan	285	74	40	18	5	422
United States	10,546	2,617	1,920	651	232	15,966

SOURCE: Federal Aviation Administration, FAA Statistical Handbook of Aviation, 1966, 1978, and 1983 (Washington, D.C.: annually), Table 3.4 (1981).
a. Excludes Puerto Rico, Virgin Islands, N. Mariana Isles, and South Pacific.

TABLE XVII-10. SELECTED CHARACTERISTICS OF AIRCRAFT LANDING FACILITIES IN MICHIGAN AND THE UNITED STATES: 1 JANUARY 1966 AND 1978 AND 31 DECEMBER 1983

	1 January 1966		1 January 1978		31 December 1983	
Item	Michigan	United States	Michigan	United States	Michigan	United States[a]
			Type of facility			
Airport	234	8,780	390	11,713	375	12,608
Heliport	0	400	15[b]	1,891	41	2,904
Seaplane base	7	362	8	513	2	388
Stolports	n.a.	n.a.	n.a.	n.a.	4	66
			Ownership			
Public	115	3,554	133	4,708	231	5,950
Private	126	5,988	280	9,409	191	10,016
			Surface and lighting			
Paved						
Lighted	74	1,965	113	3,564	126	3,920
Not lighted	7	764	19	1,[illegible]9	34	2,480
Unpaved						
Lighted	27	901	43	919	42	939
Not lighted	133	5,912	238	7,885	220	8,627

SOURCE: Federal Aviation Administration, FAA Statistical Handbook of Aviation, 1966, 1978, and 1983 (Washington, D.C.: annually), Tables 3.2 and 3.3 (1981).
a. Excludes Puerto Rico, Virgin Islands, N. Mariana Isles, and South Pacific.
b. Includes short take-off and landing ports.

TABLE XVII-7. NUMBER OF MOTOR VEHICLE TRAFFIC ACCIDENTS, PERSONS KILLED, AND PERSONS INJURED IN MICHIGAN, BY COUNTY: 1983

	Accidents							Persons	
County	Fatal	Injury	Property damage	Inter-state	Local street	State route	Total	Killed	Injured
Alcona	1	82	297	0	205	175	380	1	100
Alger	1	63	211	0	121	154	275	1	88
Allegan	14	707	1,688	113	1,548	748	2,409	20	1,042
Alpena	5	242	632	0	485	394	879	6	342
Antrim	3	126	351	0	258	222	480	3	178
Arenac	3	167	501	50	323	298	671	3	255
Baraga	3	51	194	0	123	125	248	3	89
Barry	12	378	1,216	0	1,096	510	1,606	12	568
Bay	11	1,042	2,370	167	2,015	1,241	3,423	11	1,517
Benzie	5	109	252	0	185	181	366	5	168
Berrien	21	1,598	3,924	789	3,308	1,446	5,543	23	2,374
Branch	14	347	949	118	834	358	1,310	15	501
Calhoun	15	1,365	3,795	812	3,314	1,049	5,175	16	1,966
Cass	11	430	1,257	0	1,005	693	1,698	13	622
Charlevoix	5	176	609	0	403	387	790	5	275
Cheboygan	3	221	430	84	353	217	654	3	330
Chippewa	2	190	724	220	555	141	916	2	260
Clare	3	217	806	0	516	510	1,026	5	329
Clinton	12	491	1,307	166	1,129	515	1,810	14	765
Crawford	1	114	341	158	185	113	456	2	160
Delta	7	321	1,078	0	872	534	1,406	7	463
Dickinson	5	211	697	0	433	480	913	6	302
Eaton	12	796	1,858	305	1,216	1,145	2,666	12	1,198
Emmet	5	269	790	10	535	519	1,064	5	408
Genesee	53	4,210	9,057	941	9,261	3,118	13,320	56	6,466

TABLE XVII-7. NUMBER OF MOTOR VEHICLE TRAFFIC ACCIDENTS, PERSONS KILLED, AND PERSONS INJURED IN MICHIGAN, BY COUNTY: 1983 (cont.)

	Accidents							Persons	
County	Fatal	Injury	Property damage	Inter-state	Local street	State route	Total	Killed	Injured
Gladwin	3	174	521	0	386	312	698	4	259
Gogebic	6	115	486	0	326	281	607	7	172
Grand Traverse	8	723	1,690	0	1,527	894	2,421	10	1,093
Gratiot	7	320	959	0	707	579	1,286	8	479
Hillsdale	13	325	1,066	0	893	511	1,404	14	520
Houghton	6	218	933	0	429	728	1,157	6	296
Huron	2	274	939	0	603	612	1,215	2	406
Ingham	32	2,719	6,869	1,085	5,478	3,057	9,620	33	3,897
Ionia	13	435	1,275	161	1,106	456	1,723	17	638
Iosco	8	220	778	0	562	444	1,006	10	311
Iron	1	94	397	0	231	261	492	1	131
Isabella	16	463	1,291	0	1,183	587	1,770	18	695
Jackson	24	1,388	3,952	840	3,497	1,027	5,364	28	2,002
Kalamazoo	21	2,007	5,976	828	5,682	1,494	8,004	21	2,879
Kalkaska	3	128	329	0	271	189	460	4	214
Kent	60	4,808	11,657	838	11,178	4,509	16,525	68	6,871
Keweenaw	1	24	45	0	30	40	70	1	38
Lake	4	100	297	0	236	165	401	5	147
Lapeer	17	584	1,364	0	1,220	745	1,965	23	928
Leelanau	0	128	333	0	226	235	461	0	183
Lenawee	17	769	2,027	0	1,590	1,223	2,813	17	1,115
Livingston	26	955	1,941	472	1,926	524	2,922	31	1,429
Luce	3	35	129	0	75	92	167	3	62
Mackinac	5	123	366	50	158	286	494	6	204
Macomb	62	7,020	13,545	913	13,533	6,181	20,627	65	10,602

TABLE XVII-7. NUMBER OF MOTOR VEHICLE TRAFFIC ACCIDENTS, PERSONS KILLED, AND PERSONS INJURED IN MICHIGAN, BY COUNTY: 1983 (cont.)

	Accidents							Persons	
County	Fatal	Injury	Property damage	Inter-state	Local street	State route	Total	Killed	Injured
Manistee	3	187	639	0	499	330	829	3	282
Marquette	11	514	1,794	0	1,460	859	2,319	11	708
Mason	8	230	750	0	605	383	988	14	339
Mecosta	9	341	1,249	0	825	774	1,599	13	501
Menominee	3	214	1,005	0	707	515	1,222	4	300
Midland	10	630	1,809	0	1,835	614	2,449	11	918
Missaukee	1	76	297	0	208	166	374	1	114
Monroe	23	1,273	2,548	321	2,351	1,172	3,844	24	1,830
Montcalm	11	383	1,446	0	1,013	827	1,840	12	605
Montmorency	2	75	240	0	177	140	317	2	125
Muskegon	21	1,434	3,432	281	3,491	1,115	4,887	25	2,075
Newaygo	12	349	918	0	821	458	1,279	12	538
Oakland	106	11,523	22,158	1,604	25,513	6,670	33,787	117	17,224
Oceana	5	178	412	0	418	177	595	6	277
Ogemaw	4	143	608	150	408	197	755	8	211
Ontonagon	3	56	202	0	75	186	261	3	84
Osceola	7	174	635	0	404	412	816	8	287
Oscoda	3	65	254	0	169	153	322	4	92
Otsego	5	174	452	93	381	157	631	6	266
Ottawa	18	1,290	2,943	265	2,906	1,080	4,251	19	1,846
Presque Isle	1	103	416	0	255	265	520	1	139
Roscommon	4	160	459	47	270	306	623	4	268
Saginaw	29	2,299	4,998	339	4,693	2,294	7,326	30	3,483
St. Clair	22	1,119	2,888	142	2,368	1,519	4,029	23	1,712
St. Joseph	11	533	1,499	0	1,034	1,009	2,043	11	808

TABLE XVII-7. NUMBER OF MOTOR VEHICLE TRAFFIC ACCIDENTS, PERSON KILLED, AND PERSONS INJURED IN MICHIGAN, BY COUNTY: 1983 (cont.)

County	Accidents							Persons	
	Fatal	Injury	Property damage	Inter-state	Local street	State route	Total	Killed	Injured
Sanilac	8	284	919	0	668	543	1,211	8	441
Schoolcraft	0	75	218	0	126	167	293	0	123
Shiawassee	10	577	1,419	175	1,187	644	2,006	10	917
Tuscola	9	392	1,060	0	862	599	1,461	10	624
Van Buren	11	542	1,332	279	1,200	906	1,885	11	818
Washtenaw	30	2,460	5,784	1,015	5,326	1,933	8,274	33	3,488
Wayne	214	24,697	48,629	6,040	51,146	16,354	73,540	226	37,611
Wexford	10	269	786	0	407	658	1,065	10	420
TOTAL	1,209	90,891	208,697	19,871	197,139	83,787	300,797	1,331	135,811

SOURCE: Michigan Department of State Police, Michigan Traffic Accident Facts, 1983.

TABLE XVII-11. PASSENGERS, MAIL AND CARGO FOR AIR CARRIER AIRPORTS: JANUARY-DECEMBER, 1984

Airport Name (community)	Jan. thru Dec.	Passengers			Mail (pounds)			Cargo (tons)		
		Deplaned	Enplaned	Total	Inbound	Outbound	Total	Inbound	Outbound	Total
Phelps Collin (Alpena)	1983	4,074	4,091	8,165	0	0	0	4.8	3.2	8.0
	1984	4,196	4,375	8,571	0	0	0	6.2	2.4	8.6
	%Chg	3.0	6.9	5.0	0.0	0.0	0.0	29.2	-25.0	7.5
W.K. Kellogg Regional (Battle Creek)	1983	18,212	18,698	36,910	0	0	0	187.5	51.5	239.0
	1984	18,791	18,940	37,731	0	0	0	141.1	35.9	177.0
	%Chg	3.2	1.3	2.2	0.0	0.0	0.0	-24.7	-30.0	-25.9
Ross Field (Benton Harbor)	1983	10,673	11,454	22,127	0	0	0	6.8	11.1	17.9
	1984	13,068	13,749	26,817	0	0	0	6.4	4.1	10.5
	%Chg	22.4	20.0	21.2	0.0	0.0	0.0	-5.9	-63.1	-41.3
Wexford County (Cadillac)	1983	156	195	351	0	0	0	.1	.1	.2
	1984	0	0	0	.0	.0	.0	.0	.0	.0
	%Chg	-100.0	-100.0	-100.0	0.0	0.0	0.0	-100.0	-100.0	-100.0
Detroit City (Detroit)	1983	22,868	23,080	45,948	0	0	0	77.9	88.4	166.3
	1984	21,286	22,354	43,640	0	0	0	45.9	57.3	103.2
	%Chg	-6.9	-3.1	-5.0	0.0	0.0	0.0	-41.1	-35.2	-37.9
Detroit Metropolitan (Detroit)	1983	4,580,235	4,548,393	9,128,628	35,488,051	42,019,947	77,507,998	37,744.0	39,047.8	76,791.8
	1984	5,654,617	5,643,208	11,297,825	42,796,010	48,832,620	91,628,630	52,622.9	51,674.5	104,297.4
	%Chg	23.5	24.1	23.8	20.6	16.2	18.2	39.4	32.3	35.8
Delta County (Escanaba)	1983	14,797	15,824	30,621	1,522	4,737	6,259	48.2	18.6	66.8
	1984	15,160	15,459	30,619	1,712	13,271	14,983	13.6	16.0	29.6
	%Chg	2.5	-2.3	0.0	12.5	180.2	139.4	-71.8	-14.0	-55.7
Bishop (Flint)	1983	83,606	85,005	168,611	19,218	63,530	82,748	154.7	26.5	181.2
	1984	115,163	118,257	233,420	32,618	106,250	138,868	165.3	44.6	209.9
	%Chg	37.7	39.1	38.4	69.7	67.2	67.8	6.9	68.3	15.8

TABLE XVII-11. PASSENGERS, MAIL AND CARGO FOR AIR CARRIER AIRPORTS: JANUARY-DECEMBER, 1984 (cont.)

Airport Name (community)	Jan. thru Dec.	Passengers			Mail (pounds)			Cargo (tons)		
		Deplaned	Enplaned	Total	Inbound	Outbound	Total	Inbound	Outbound	Total
Kent County International (Grand Rapids)	1983	494,525	491,416	985,941	7,208,234	487,982	7,696,216	3,074.9	2,360.5	5,435.4
	1984	519,085	520,686	1,039,771	8,594,796	654,249	9,249,045	3,380.2	3,261.7	6,641.9
	%Chg	5.0	6.0	5.5	19.2	34.1	20.2	9.9	38.2	22.2
Houghton County Memorial (Houghton/Hancock)	1983	21,344	19,939	41,283	8,764	4,083	12,847	54.6	44.9	99.5
	1984	20,002	19,644	39,646	5,090	6,607	11,697	32.1	28.8	60.9
	%Chg	-6.3	-1.5	-4.0	-41.9	61.8	-9.0	-41.2	-35.9	-38.8
Ford (Iron Mountain)	1983	10,336	10,662	20,998	55,986	9,244	65,230	68.0	50.8	118.8
	1984	10,718	10,845	21,563	9,384	18,237	27,621	11.9	5.8	17.7
	%Chg	3.7	1.7	2.7	-83.2	97.3	-57.7	-82.5	-88.6	-85.1
Gogebic County (Ironwood)	1983	5,131	5,158	10,289	69	0	69	11.6	6.6	18.2
	1984	3,026	3,079	6,105	0	0	0	4.4	1.2	5.6
	%Chg	-41.0	-40.3	-40.7	-100.0	0.0	-100.0	-62.1	-81.8	-69.2
Jackson County Reynolds (Jackson)	1983	1,585	1,429	3,014	0	0	0	2.8	1.6	4.4
	1984	1,342	1,103	2,445	0	0	0	2.6	2.0	4.6
	%Chg	-15.3	-22.8	-18.9	0.0	0.0	0.0	-7.1	25.0	4.5
Kalamazoo Municipal (Kalamazoo)	1983	106,162	100,989	207,151	199,314	106,987	306,301	138.7	224.6	363.3
	1984	124,975	124,684	249,659	134,902	196,156	331,058	208.3	144.0	352.3
	%Chg	17.7	23.5	20.5	-32.3	83.3	8.1	50.2	-35.9	-3.0
Capital City (Lansing)	1983	177,255	172,858	350,113	114,560	89,593	204,153	313.4	147.9	461.3
	1984	170,235	163,569	333,804	162,675	718,969	881,644	292.9	131.1	424.0
	%Chg	-4.0	-5.4	-4.7	42.0	702.5	331.9	-6.5	-11.4	-8.1
Mackinac Island (Mackinac Island)	1983	870	881	1,751	0	0	0	.4	.4	.8
	1984	630	783	1,413	0	0	0	.1	.0	.1
	%Chg	-27.6	-11.1	-19.3	0.0	0.0	0.0	-75.0	-100.0	-87.5
Manistee County-Blacker (Manistee)	1983	814	852	1,666	0	0	0	1.1	.6	1.7
	1984	834	890	1,724	0	0	0	.7	.0	.7
	%Chg	2.5	4.5	3.5	0.0	0.0	0.0	-36.4	-100.0	-58.8

TABLE XVII-13. MICHIGAN AIR SERVICE INDICATORS BY CITY AS OF 1 MAY 1984

City/Airport	Daily flights	Daily seats	Non-Stop origins	Carriers	
Alpena	4	72	4	1	MQ
Battle Creek	7	350	3	1	ZW
Benton Harbor	3	90	1	1	XV
Cadillac(a)					
Detroit City	21	251	4	3	Q, KC, GS
Detroit Metro	372	34,591	59(b)	30	MQ,DL,EA,RC,NI,PI,ZW, JR,NW,UA,AL,AL-1,IW,ML, AA,OH,KC,NY,GS,QH,FL, TF,PA,OZ,TW,RU,BN,CO, DN,UR, (BA,SN) (c)
Escanaba	14	488	6	2	DN,MQ
Flint	32	1,296	10	6	MQ,GS,AL-1,PI,IU,ZW
Grand Rapids	48	4,270	12	7	MQ,UA,RC,DN,PI,NW,AL
Hancock	6	288	3	1	RC
Iron Mountain	11	452	5	2	MQ,DN
Ironwood	4	172	1	2	MQ,DN
Jackson	2	36	2	1	MQ
Kalamazoo	21	1,039	4	3	RC,MQ,AL-1
Lansing	29	2,055	7	5	RC,DN,PI,MQ,UA
Mackinac Island (d)	5	25	1	1	QQ
Manistee	2	16	2	1	JR
Marquette	13	516	5	2	RC,MQ
Menominee	4	126	3	1	MQ
Muskegon	17	602	4	2	ZW,IU
Pellston	10	321	4	2	RC,QQ
Pontiac (e)	3	27	2	1	GS
Saginaw	22	1,654	7	3	MQ,UA,RC
Sault Ste. Marie	3	54	2	1	MQ
Sturgis (f)	6	48	2	1	JR
Traverse City	15	840	7	3	MQ,RC,IU
TOTAL	674	49,679	160	34	MQ,DL,EA,RC,NI,PI,ZW,JR, NW,UA,AL,AL-1,IW,ML,AA, OH,KC,NY,GS,QH,FL,TF,PA, OZ,TW,RU,XV,UQ,DN,IU,QQ BN,CO,UR,(BA,SN) (c)

SOURCE: Michigan Department of Transportation, Bureau of Transportation Planning, Aviation Planning Unit, special release.

a. Air service to and from Cadillac was stopped in 1983.

b. Detroit Metro has non-stop service to 54 cities serving 59 airports. Cities served with more than one airport include Chicago (O'Hare, Midway), Houston (International, Houston), New York City (Kennedy, Newark, La Guardia), Cleveland (Hopkins, Burke).

c. U.S. Air and Fisher Bros. are differentiated by AL and AL-1 respectively. British (BA) and Sabena (SN) are foreign flag carriers at Detroit Metro. Their one-stop service is not included in any of the figures above.

d. Mackinac Island service is seasonal.

e. Air service at Pontiac began in April, 1984.

f. Service at Sturgis terminated on June 30, 1984.

g. Aircraft seating capacity is derived from a phone survey of airlines conducted in May and June, 1984 by the Michigan Department of Transportation, Aviation Planning Unit.

TABLE XVII-14. MICHIGAN AIR SERVICE INDICATORS BY CARRIER AS OF 1 MAY 1984

Carrier	Daily flights	Daily seats	MI cities serviced	Intrastate pairs	Interstate city-pairs
RC - Republic	161	15,088	8	26	32
MQ - Simmons	112	3,310	15	43	11
NW - N.W. Orient	34	5,188	2	2	11
UA - United	31	4,238	4	6	8
ZW - Air Wisconsin	34	1,850	4	6	7
DL - Delta	18	2,638	1	0	10
AL - U.S. Air	33	2,374	2	0	10
IU - Midstate	16	304	3	2	2
AL-1 - Fischer Bros.	28	740	3	4	0
OH - Comair	27	594	1	0	7
AA - American	16	2,771	1	0	3
KC - Wright	23	790	2	0	4
PI - Piedmont	14	1,776	4	0	5
EA - Eastern	9	1,039	1	1	3
GS - Beaver Air	16	144	4	4	4
JR - American Central	14	142	3	2	4
TW - Transworld	6	1,000	1	0	2
ML - Midway	8	676	1	0	1
QQ - Michigan Airways	10	50	2	2	0
FL - Frontier	4	436	1	0	2
DN - Freedom	17	658	6	5	3
UQ - Sundorph	4	28	1	0	1
PA - Pan American	3	613	1	0	2
CO - Continental	4	518	1	0	2
NY - New York	10	1,137	1	0	2
OZ - Ozark	3	270	1	0	1
IW - Best	3	246	1	0	3
RU - Britt Airways	5	90	1	0	1
XV - Mississippi Valley	3	90	1	0	1
NI - American Int'l	2	340	1	0	1
QH - Air Florida	1	128	1	0	1
TF - Jet Stream	2	36	1	0	1
BN - Braniff, Inc.	2	292	1	0	1
UR - Empire Airlines	1	85	1	0	1
TOTAL	674	49,679	82	103	147

SOURCE: Michigan Department of Transportation, special release.

NOTE: Daily Flights and Seats are arrivals aggregated across Michigan's commercial service airports. Michigan cities served is self-explanatory but the Total represents 82 'carrier cities' at our 25 service airports. Intrastate City pairs are one-way trip city pairs. Interstate city pairs are one-way arrivals from out-of-state. To compare these last two items, either double the interstate city pair figures or halve the intrastate city pair figures.

TABLE XVII-16. ANNUAL MASS TRANSIT RIDERSHIP: 1981-1984

Service	1981	1982	1983	1984
	(Total passengers)			
Local public transportation	127,078,474	118,276,540	101,975,898	109,779,331
Intercity rail passenger	506,255	504,000	472,451	457,483
Detroit-Chicago (incl. Detroit-Toledo)	393,278	348,028	354,817	347,251
Port Huron-Chicago	112,977	99,332	117,634	110,232
SEMTA commuter rail	448,973	349,887	(a)	(a)

SOURCE: Michigan Department of Transportation, special release.

a. Service discontinued.

TABLE XVII-17. ANNUAL RIDERSHIP AND VEHICLE HOURS FOR EACH LOCAL PUBLIC TRANSPORTATION SYSTEM: 1983 AND 1984

Planning Area	Annual Ridership		Annual vehicle hours	
	1983	1984	1983	1984
Michigan	101,975,898	109,779,331	4,691,214	4,464,136
Urban Bus Systems	97,969,773	105,448,295	3,949,549	3,642,730
Ann Arbor	3,036,563	3,430,055	140,076	144,496
Battle Creek	853,169	1,010,318	39,006	45,693
Bay County[a]	1,197,052	1,205,453	85,060	86,724
Benton Harbor	118,465	142,946	20,727	23,359
Flint	3,899,484	4,058,909	140,037	146,759
Grand Rapids	5,214,655	5,190,908	161,293	169,856
Jackson[a]	661,146	558,242	42,116	40,233
Kalamazoo	2,470,759	2,570,186	107,576	96,565
Lansing	4,406,843	4,532,553	149,977	143,613
Muskegon	661,917	683,356	34,580	34,982
Niles	121,951	111,437	25,368	20,823
Saginaw	1,485,345	1,528,074	62,984	64,265
SEMTA[b]	73,842,424	80,425,858	2,940,749	2,625,362
Nonurban local bus systems	2,166,843	3,136,203	343,865	513,300
Adrian	96,720	97,150	13,330	13,262
Alma	56,164	75,132	6,851	8,873
Alpena	82,676	88,194	12,355	12,540
Antrim County	58,127	75,965	12,968	17,793
Belding	36,275	42,504	4,335	4,370
Big Rapids	96,902	103,300	15,441	14,336
Cadillac	78,698	80,753	17,654	17,675
Crawford County	117,945	110,980	12,281	17,963
Dowagiac	30,604	33,916	4,568	4,783
Eaton Rapids	14,995	n.a.	3,996	n.a.
EUPTAB	75,074	80,600	15,130	15,370
Gladwin	18,052	27,803	4,328	4,905
Grand Haven	114,048	127,129	16,047	17,578
Hillsdale	45,337	45,535	6,180	5,832
Holland	109,037	105,958	18,026	20,240
Houghton	79,025	83,056	11,718	11,989
Isabella County	170,119	172,877	26,867	28,153
Ishpeming	28,340	27,999	6,713	6,436
Lenawee County	31,006	59,954	6,868	13,389
Ludington	85,812	117,372	11,766	15,603
Manistee County	118,246	129,534	19,165	24,158
Marquette	147,167	147,674	12,370	12,689
Marshall	59,104	68,611	5,694	6,120
Mecosta County	52,473	66,432	11,223	12,318
Midland	133,717	142,475	24,091	26,650
Sault Ste. Marie	83,688	70,811	11,704	9,040
Traverse City	80,685	90,443	17,238	17,634
Van Buren County	51,286	47,127	8,822	8,153
Yates Township	15,521	25,124	6,136	6,111

TABLE XVII-11. PASSENGERS, MAIL AND CARGO FOR AIR CARRIER AIRPORTS: JANUARY-DECEMBER, 1984 (cont.)

Airport Name (community)	Jan. thru Dec.	Passengers			Mail (pounds)			Cargo (tons)		
		Deplaned	Enplaned	Total	Inbound	Outbound	Total	Inbound	Outbound	Total
Marquette County (Marquette)	1983	32,815	32,942	65,757	29	38	67	178.9	32.2	211.1
	1984	36,258	35,898	72,156	352	69	421	173.8	29.3	203.1
	%Chg	10.5	9.0	9.7	1,113.8	81.6	528.4	-2.9	-9.0	-3.8
Menominee-Marinette (Menominee)	1983	1,675	1,494	3,169	0	0	0	2.4	1.7	4.1
	1984	1,615	1,571	3,186	0	0	0	1.9	1.1	3.0
	%Chg	-3.6	5.2	0.5	0.0	0.0	0.0	-20.8	-35.3	-26.8
Muskegon County (Muskegon)	1983	44,413	44,690	89,103	445	3	448	84.6	65.1	149.7
	1984	43,802	43,986	87,788	0	0	0	31.3	21.5	52.8
	%Chg	-1.4	-1.6	-1.5	-100.0	-100.0	-100.0	-63.0	-67.0	-64.7
Emmet County (Pellston)	1983	19,731	20,154	39,885	18	151	169	71.3	52.8	124.1
	1984	20,833	20,706	41,539	117	467	584	64.9	54.0	118.9
	%Chg	5.6	2.7	4.1	550.0	209.3	245.6	-9.0	2.3	-4.2
Tri-City International (Saginaw)	1983	156,801	163,499	320,300	59,703	38,911	98,614	306.6	183.1	492.7
	1984	158,621	159,014	317,635	77,209	48,711	125,920	316.0	139.1	455.1
	%Chg	1.2	-2.7	-0.8	29.3	25.2	27.7	2.1	-24.0	-7.6
Chippewa Co. International (Sault Ste. Marie)	1983	4,783	4,969	9,752	435	1,133	1,568	14.6	10.2	24.8
	1984	3,849	4,195	8,044	3,189	1,914	5,103	8.0	3.9	11.9
	%Chg	-19.5	-15.6	-17.5	633.1	68.9	225.4	-45.2	-61.8	-52.0
Cherry Capital (Traverse City)	1983	70,156	68,927	139,083	20,134	8,176	28,310	278.1	172.4	450.5
	1984	68,828	67,295	136,123	20,774	12,579	33,353	337.9	127.8	465.7
	%Chg	-1.9	-2.4	-2.1	3.2	53.9	17.8	21.5	-25.9	3.4
TOTAL	1983	5,883,017	5,847,599	11,730,616	43,176,482	42,834,515	86,010,997	42,829.0	42,602.6	85,431.6
	1984	7,026,934	7,014,290	14,041,224	51,838,828	50,610,099	102,448,927	57,868.4	55,786.1	113,654.5
	%Chg	19.4	20.0	19.7	20.1	18.2	19.1	35.1	30.9	33.0

SOURCE: Michigan Department of Transportation, special release.

TABLE XVII-12. ITINERANT, LOCAL AND TOTAL OPERATIONS FOR TOWER AIRPORTS, JANUARY-DECEMBER, 1984

Airport name (community)	Jan thru Dec	Itinerant operations				Local operations			Total operations
		Air carrier	General aviation	Air taxi military	Total itinerant	General aviation	Military	Total local	
Ann Arbor Municipal	1983	0	31,854	482	32,336	47,758	67	47,825	80,161
(Ann Arbor)	1984	0	35,359	587	35,916	57,956	100	58,056	94,002
	%Chg	0.0	11.0	21.8	11.2	21.4	49.3	21.4	17.3
W.K. Kellogg Regional	1983	4,705	16,391	3,881	24,977	15,651	2,608	18,259	43,236
(Battle Creek)	1984	4,256	15,986	4,870	25,112	12,120	2,608	14,728	39,840
	%Chg	-9.5	-2.5	25.5	0.5	-22.6	0.0	-19.3	-7.9
Detroit City	1983	3,020	67,935	13,946	84,901	45,654	113	45,767	130,668
(Detroit)	1984	4,406	82,763	15,603	102,772	41,343	15	41,358	144,130
	%Chg	45.9	21.8	11.9	21.0	-9.4	-86.7	-9.6	10.3
Detroit Metropolitan	1983	169,007	60,967	52,267	282,241	0	0	0	282,241
(Detroit)	1984	195,157	65,373	65,740	326,270	0	0	0	326,270
	%Chg	15.5	7.2	25.8	15.6	0.0	0.0	0.0	15.6
Detroit-Willow Run	1983	13,232	47,058	7,731	68,021	74,815	119	74,934	142,955
(Detroit)	1984	16,854	42,367	17,740	76,961	76,426	122	76,548	153,509
	%Chg	27.4	-10.0	129.5	13.1	2.2	2.5	2.2	7.4
Bishop	1983	1,733	38,963	13,616	54,312	46,072	785	46,857	101,169
(Flint)	1984	3,499	39,751	15,973	59,223	50,622	1,058	51,680	110,903
	%Chg	101.9	2.0	17.3	9.0	9.9	34.8	10.3	9.6
Kent County International	1983	28,823	58,037	6,823	93,683	34,292	900	35,192	128,875
	1984	30,429	58,639	9,490	98,558	32,393	1,286	33,679	132,237
(Grand Rapids)	%Chg	5.6	1.0	39.1	5.2	-5.5	42.9	-4.3	2.6
Jackson County Reynolds	1983	0	29,960	3,470	33,430	21,039	206	21,245	54,675
(Jackson)	1984	2	32,196	2,555	34,753	23,468	342	23,810	58,563
	%Chg	100.0	7.5	-26.4	4.0	11.5	66.0	12.1	7.1

TABLE XVII-12. ITINERANT, LOCAL AND TOTAL OPERATIONS FOR TOWER AIRPORTS, JANUARY-DECEMBER, 1984 (cont.)

Airport name (community)	Jan thru Dec	Itinerant operations				Local operations			Total operations
		Air carrier	General aviation	Air taxi military	Total itinerant	General aviation	Military	Total local	
Kalamazoo Municipal	1983	6,952	41,648	6,498	55,098	35,332	202	35,534	90,632
(Kalamazoo)	1984	8,870	40,918	7,792	57,580	27,733	164	27,897	85,477
	%Chg	27.6	-1.8	19.9	4.5	-21.5	-18.8	-21.5	-5.7
Capital City	1983	12,845	52,416	9,526	74,787	41,543	6,936	48,479	123,266
(Lansing)	1984	9,872	50,840	10,824	71,536	43,680	1,578	45,258	116,794
	%Chg	-23.1	-3.0	13.6	-4.3	5.1	-77.2	-6.6	-5.3
Muskegon County	1983	6,920	26,218	7,159	40,297	18,846	1,650	20,496	60,793
(Muskegon)	1984	7,297	27,673	8,988	43,958	17,263	1,892	19,155	63,113
	%Chg	5.4	5.5	25.5	9.1	-8.4	14.7	-6.5	3.8
Oakland-Pontiac	1983	907	123,814	6,369	131,090	157,418	246	157,664	288,754
(Pontiac)	1984	852	136,898	6,877	144,627	160,686	207	160,893	305,520
	%Chg	-6.1	10.6	8.0	10.3	2.1	-15.9	2.0	5.8
Tri-City International	1983	9,570	22,604	10,143	42,317	12,466	348	12,814	55,131
(Saginaw)	1984	9,021	23,237	9,196	41,751	14,753	204	14,957	56,711
	%Chg	-5.7	2.8	-6.4	-1.3	18.3	-41.4	16.7	2.9
Cherry Capital	1983	6,077	27,663	11,769	45,509	32,586	7,622	40,208	85,717
(Traverse City)	1984	6,088	28,631	11,238	45,957	33,169	6,937	40,106	86,063
	%Chg	0.2	3.5	-1.5	1.0	1.8	-9.0	-0.3	0.4
Total	1983	263,791	645,528	153,680	1,062,999	583,472	21,802	605,274	1,668,273
	1984	296,603	680,631	187,773	1,165,007	591,612	16,513	608,125	1,773,132
	%Chg	12.4	5.4	22.2	9.6	1.4	-24.3	0.5	6.3

SOURCE: Michigan Department of Transportation, special release.

TABLE XVII-15. PERCENT OF MICHIGAN'S TOTAL AIRLINE PASSENGERS BOARDING AT EACH COMMERCIAL SERVICE AIRPORT IN THE STATE: 1974-1984

Principal city served	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	Percentage change 1974-1984
Alpena	.184	.184	.183	.191	.195	.187	.193	.126	.073	.070	.061	- .123
Battle Creek	.384	.390	.423	.509	.465	.406	.376	.360	.375	.315	.269	- .115
Benton Harbor	.572	.560	.572	.606	.540	.527	.454	.291	.167	.189	.191	- .381
Detroit (City)	.615	.541	.536	.559	.555	.541	.532	.478	.465	.392	.311	- .304
Detroit (Metro)	76.541	76.066	75.439	74.917	74.877	76.467	77.630	80.277	80.739	77.819	80.462	3.921
Escanaba	.304	.300	.316	.315	.272	.307	.322	.276	.296	.261	.218	- .086
Flint	2.024	1.995	2.182	2.278	2.188	1.762	1.371	.978	.835	1.437	1.662	- .362
Grand Rapids	5.586	5.916	5.854	6.345	6.570	6.603	6.795	6.277	6.734	8.405	7.405	1.819
Houghton	.376	.400	.411	.399	.405	.384	.394	.372	.338	.352	.282	- .094
Iron Mountain	.321	.339	.337	.338	.345	.256	.306	.235	.186	.179	.154	- .167
Ironwood	.171	.171	.169	.164	.160	.173	.192	.144	.126	.088	.043	- .128
Jackson	.171	.175	.171	.179	.155	.122	.112	.064	.035	.026	.017	- .154
Kalamazoo	2.011	1.920	2.093	1.856	2.144	2.027	1.919	1.816	1.600	1.766	1.788	- .233
Lansing	3.252	3.384	3.425	3.540	3.493	3.180	2.946	2.295	2.339	2.985	2.377	- .875
Manistee	.066	.058	.055	.050	.045	.041	.036	.025	.014	.014	.012	- .054
Marquette	.597	.656	.669	.661	.668	.608	.543	.524	.490	.561	.514	- .083
Menominee	.189	.199	.184	.178	.176	.155	.161	.072	.041	.027	.023	- .166
Muskegon	1.459	1.496	1.515	1.450	1.353	1.200	.873	.896	.861	.760	.625	- .834
Pellston	.438	.460	.487	.485	.474	.434	.399	.330	.309	.340	.296	- .142
Saginaw	3.428	3.398	3.573	3.574	3.531	3.198	3.027	2.758	2.681	2.730	2.262	- 1.166
Sault Ste. Marie	.268	.275	.293	.236	.198	.192	.173	.113	.099	.083	.057	- .211
Traverse City	1.044	1.118	1.114	1.171	1.193	1.229	1.245	1.294	1.179	1.186	.969	- .075

SOURCE: Michigan Department of Transportation, Planning Division, special release.

TABLE XVII-17. ANNUAL RIDERSHIP AND VEHICLE HOURS FOR EACH LOCAL PUBLIC TRANSPORTATION SYSTEM: 1983 AND 1984 (cont.)

Planning area	Annual Ridership		Annual vehicle hours	
	1983	1984	1983	1984
New small bus systems	1,392,030	934,074	307,030	201,434
Alger County	41,954	45,784	12,899	13,788
Arenac County	23,740	n.a.	7,672	n.a.
Barry County	49,764	51,467	8,073	7,786
Bay County	46,046	170,984	7,839	18,459
Charlevoix	74,433	73,095	14,378	12,319
Clare County[c]	3,022	52,163	1,606	18,490
Crawford County	26,462	n.a.	3,990	n.a.
Eaton County	131,123	130,313	25,609	24,528
Gladwin County	43,748	13,656	12,950	4,215
Gogebic	44,088	41,783	10,104	8,328
Greenville	44,263	54,516	6,399	9,877
Huron/Sanilac Counties	170,091	166,417	40,357	32,153
Ingham County	34,643	36,129	7,089	8,046
Ionia	40,814	46,066	5,156	5,112
Iosco County	63,144	68,084	11,344	12,965
Jackson County	51,599	28,208	16,414	8,122
Lapeer County[c]	29,490	46,365	11,347	11,647
Leelanau County	38,793	48,232	9,472	10,692
Lenawee County	27,051	n.a.	5,438	n.a.
Marquette County	77,497	103,098	18,963	22,575
Ogemaw County	34,710	24,987	6,578	4,500
Ontonagon County	30,549	7,890	9,549	2,351
Oscoda County	23,662	16,491	6,441	4,756
Otsego County	53,155	55,921	13,971	13,227
Reed City	12,594	n.a.	2,937	n.a.
Roscommon County	89,998	89,689	12,937	17,408
Saugatuck	30,053	38,813	4,686	5,304
Schoolcraft County	21,908	27,598	4,988	6,071
Van Buren County	8,689	47,127	1,716	8,153
Wexford County	24,947	41,009	5,628	8,979

SOURCE: Michigan Department of Transportation, Mass Transportation Planning Section, special release.

a. For 1983, Bay County and Jackson County do not include new service.
b. SEMTA figures include DDOT and SEMTA nonurban portion.
c. Statistics are for less than one year only due to start-up date.

TABLE XVII-20. NUMBER OF REVENUE VEHICLES REPORTED BY THE DETROIT & CANADA TUNNEL CORPORATION, DETROIT INTERNATIONAL BRIDGE COMPANY, MACKINAC BRIDGE AUTHORITY, AND INTERNATIONAL BRIDGE AUTHORITY: 1969-1984

Year	Detroit & Canada Tunnel Corporation	Detroit International Bridge Company	Mackinac Bridge Authority	International Bridge Authority
1969	5,921,565	4,204,805	1,836,383	743,076
1970	5,926,789	4,216,764	1,947,862	759,999
1971	5,863,013	4,408,012	2,090,492	780,222
1972	5,681,152	4,616,461	2,174,664	824,878
1973	5,523,499	4,964,444	2,254,439	868,479
1974	5,405,642	4,973,016	2,138,298	865,814
1975	5,202,331	4,980,587	2,285,784	936,890
1976	5,056,690	5,022,711	2,391,211	957,622
1977	4,968,398	5,238,646	2,460,293	1,059,595
1978	5,392,341	4,956,585	2,539,620	1,118,930
1979	5,250,899	5,348,952	2,293,446	1,076,327
1980	5,875,945	5,971,177	2,260,102	1,216,332
1981	6,323,911	5,784,935	2,320,542	1,316,435
1982	5,397,841	5,317,383	2,295,908	1,270,609
1983	5,585,446	5,717,444	2,426,807	1,438,789
1984	5,738,845	6,024,953	2,503,603	1,539,722

SOURCE: Detroit & Canada Tunnel Corporation, special release; Detroit International Bridge Company, special release; Mackinac Bridge Authority, special release; and International Bridge Auhority.

NOTE: The International Bridge Authority links Michigan and Canada at Sault Ste. Marie. Traffic data for the Blue Water Bridge, located at Port Huron and Sarnia, are not available.

TABLE XVII-18. FREIGHT CARRIED ON THE MICHIGAN GREAT LAKES SYSTEM: 1975-1982

(Thousands of ton-miles)

Waterway and year	Domestic: Lakewise	Domestic: Coastwise	Domestic: Internal	Domestic: Local and intraport	Foreign: Canada	Foreign: Overseas	Area totals
Lake Superior							
1975	21,884,646	0	0	48	2,082,536	1,129,562	25,096,792
1976	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1977	15,454,146	0	0	181	1,616,238	1,529,034	18,599,599
1978	24,617,303	0	0	71	2,646,711	2,686,460	29,950,545
1979	25,692,584	0	0	572	2,845,119	2,184,803	30,723,078
1980	20,359,118	0	0	31	3,179,098	1,687,680	25,225,927
1981	21,485,375	0	0	16	2,945,107	1,539,937	25,970,435
1982	11,828,572	0	6	49	2,038,959	1,368,249	15,235,835
St. Mary's River							
1975	4,037,468	0	0	2	408,454	185,397	4,631,321
1976	4,138,670	0	0	3	329,790	163,517	4,631,980
1977	2,817,806	0	0	1	312,514	250,804	3,381,125
1978	4,511,761	0	0	4	450,469	440,943	5,403,177
1979	4,612,771	0	0	1	464,618	358,598	5,435,988
1980	3,618,103	0	0	1	532,626	277,227	4,427,957
1981	3,828,774	0	0	0	475,926	252,999	4,557,699
1982	2,062,519	0	0	0	322,170	224,629	2,609,318
Lake Huron							
1975	16,125,686	0	1,333	4,100	3,315,051	1,372,476	20,818,646
1976	17,004,630	0	3,963	4,935	3,962,777	1,548,453	22,424,758
1977	13,135,740	0	8	4,970	3,482,484	2,131,923	18,755,125
1978	17,992,729	0	610	4,658	3,840,447	2,894,635	24,733,079
1979	18,552,490	1,346	303	4,789	4,611,055	2,577,599	25,747,582
1980	14,678,609	49	157	2,993	4,834,673	1,575,443	20,091,924
1981	13,958,715	0	604	3,091	4,153,848	1,477,227	19,593,485
1982	7,943,626	0	14	2,077	2,968,409	1,440,600	12,354,726

TABLE XVII-18. FREIGHT CARRIED ON THE MICHIGAN GREAT LAKES SYSTEM: 1975-1982 (cont.)

(Thousands of ton-miles)

Waterway and year	Domestic				Foreign		Area totals
	Lakewise	Coastwise	Internal	Local and intraport	Canada	Overseas	
St. Clair[a]							
1975	3,817,879	0	308	0	771,777	336,978	4,926,942
1976	3,953,856	0	665	0	863,660	376,761	5,194,942
1977	2,986,684	0	0	0	822,731	519,520	4,328,935
1978	4,101,310	0	141	0	913,248	716,796	5,731,495
1979	4,257,591	312	68	0	1,128,238	636,397	6,022,606
1980	3,345,722	804	0	0	944,938	393,683	4,685,147
1981	3,172,715	0	6	0	1,022,650	369,192	4,564,463
1982	1,703,759	0	0	0	692,831	355,918	2,752,508
Detroit River							
1975	1,950,195	1,112	268	988	498,614	221,029	2,672,206
1976	2,024,737	1,600	402	794	519,801	253,521	2,800,855
1977	1,529,176	1,159	34	779	520,875	338,756	2,390,779
1978	2,062,537	1,458	114	913	542,028	434,753	3,041,803
1979	2,158,570	1,383	37	390	666,182	387,630	3,214,192
1980	1,703,918	1,651	0	437	566,896	234,782	2,507,684
1981	1,621,194	0	3	133	649,146	222,682	2,493,158
1982	855,914	0	0	258	442,642	214,246	1,513,060
Lake Michigan[b]							
1975	14,366,790	913	555,173	72,047	2,193,957	909,835	18,098,715
1976	14,490,026	1,200	460,620	65,835	3,075,673	1,265,525	19,358,885
1977	11,270,889	1,057	421,172	57,984	2,775,846	1,628,324	16,155,272
1978	16,005,560	897	380,129	76,822	2,443,191	1,740,677	20,647,276
1979	15,266,657	2,491	395,712	72,655	3,121,358	1,661,987	20,520,860
1980	12,178,890	851	455,227	68,523	2,028,203	762,070	15,493,761
1981	12,518,988	536	474,752	48,370	2,460,422	750,830	16,253,898
1982	8,336,314	78	372,861	58,727	2,092,793	822,815	11,683,408

SOURCE: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Part 3, Waterways and Harbors--Great Lakes, 1975 through 1982 (Vicksburg, Mississippi: annually).

a. Includes St. Clair River and channels in Lake St. Clair.

b. Includes the port of Chicago.

TABLE XVII-19. FREIGHT TRAFFIC ON PRINCIPAL MICHIGAN WATERWAYS: 1976-1982

(In thousands of short tons)

Port or waterway	1976	1977	1978	1979	1980	1981	1982
Alabaster	561.0	621.7	n.a.	n.a.	389.9	300.1	185.9
Alpena Harbor	2,835.5	3,004.9	3,203.7	2,942.1	2,737.0	2,170.7	1,821.2
Calcite	11,313.5	11,985.2	11,699.2	n.a.	7,428.0	7,974.9	5,269.3
Charlevoix	124.2	42.5	163.2	n.a.	144.5	114.1	163.1
Cheboygan	158.0	158.9	134.8	n.a.	110.5	90.1	75.3
Detroit River	104,551.8	90,576.9	113,031.8	118,392.0	92,072.8	90,405.9	56,566.2
Port of Detroit	26,407.9	25,092.8	25,881.5	24,996.0	19,268.4	17,839.1	13,176.1
Detroit Harbor	10,371.6	7,856.8	9,005.9	8,316.3	5,894.6	5,143.2	4,322.6
Rouge River	11,061.9	12,055.8	11,499.3	12,492.1	10,277.3	9,663.8	7,468.8
Ecorse	635.6	902.0	726.2	316.9	369.8	182.5	152.8
Wyandotte	1,584.3	1,442.2	1,290.6	438.9	293.4	334.4	158.0
Trenton	3,059.8	3,131.0	3,704.7	3,615.5	2,652.8	2,569.7	1,105.4
Escanaba	11,934.4	9,506.1	13,207.5	n.a.	11,240.6	10,061.7	6,507.1
Frankfort Harbor	433.1	365.6	542.4	1,397.3	944.5	1,351.2	278.5
Gladstone	261.9	232.7	298.8	n.a.	144.4	185.4	130.5
Grand Haven Harbor and Grand River	830.9	499.5	701.7	1,010.0	585.2	430.1	479.3
Grays Reef Passage	5,899.4	5,378.7	6,562.5	7,690.7	6,020.6	5,194.8	3,791.4
Holland	338.7	377.1	419.9	451.5	263.2	264.0	209.4
Harbor Beach	296.5	268.3	253.7	n.a.	180.6	113.7	n.a.
Keweenaw Waterway	236.4	264.2	252.1	n.a.	186.7	242.5	295.5
Ludington Harbor	2,338.8	2,449.0	2,397.9	2,76.9	2,129.0	1,762.3	1,190.8
Manistee Harbor	182.5	181.4	183.8	n.a.	185.7	132.3	214.6
Marquette Harbor	572.3	394.3	86.9	n.a.	77.3	67.7	175.6
Menominee Harbor and River[a]	105.1	124.2	137.4	n.a.	n.a.	n.a.	131.1
Monroe Harbor	972.9	1,321.3	2,374.2	2,662.8	2,768.5	2,782.0	2,401.4
Muskegon Harbor	2,270.8	1,912.4	1,952.5	1,906.7	1,235.3	1,158.5	1,153.3
Petoskey Pen Dixie Harbor	430.8	485.5	428.9	n.a.	371.9	n.a.	n.a.

TABLE XVII-18. FREIGHT CARRIED ON THE MICHIGAN GREAT LAKES SYSTEM: 1975-1982 (cont.)

(Thousands of ton-miles)

Waterway and year	Domestic				Foreign		Area totals
	Lakewise	Coastwise	Internal	Local and intraport	Canada	Overseas	
St. Clair[a]							
1975	3,817,879	0	308	0	771,777	336,978	4,926,942
1976	3,953,856	0	665	0	863,660	376,761	5,194,942
1977	2,986,684	0	0	0	822,731	519,520	4,328,935
1978	4,101,310	0	141	0	913,248	716,796	5,731,495
1979	4,257,591	312	68	0	1,128,238	636,397	6,022,606
1980	3,345,722	804	0	0	944,938	393,683	4,685,147
1981	3,172,715	0	6	0	1,022,650	369,192	4,564,463
1982	1,703,759	0	0	0	692,831	355,918	2,752,508
Detroit River							
1975	1,950,195	1,112	268	988	498,614	221,029	2,672,206
1976	2,024,737	1,600	402	794	519,801	253,521	2,800,855
1977	1,529,176	1,159	34	779	520,875	338,756	2,390,779
1978	2,062,537	1,458	114	913	542,028	434,753	3,041,803
1979	2,158,570	1,383	37	390	666,182	387,630	3,214,192
1980	1,703,918	1,651	0	437	566,896	234,782	2,507,684
1981	1,621,194	0	3	133	649,146	222,682	2,493,158
1982	855,914	0	0	258	442,642	214,246	1,513,060
Lake Michigan[b]							
1975	14,366,790	913	555,173	72,047	2,193,957	909,835	18,098,715
1976	14,490,026	1,200	460,620	65,835	3,075,673	1,265,525	19,358,885
1977	11,270,889	1,057	421,172	57,984	2,775,846	1,628,324	16,155,272
1978	16,005,560	897	380,129	76,822	2,443,191	1,740,677	20,647,276
1979	15,266,657	2,491	395,712	72,655	3,121,358	1,661,987	20,520,860
1980	12,178,890	851	455,227	68,523	2,028,203	762,070	15,493,761
1981	12,518,988	536	474,752	48,370	2,460,422	750,830	16,253,898
1982	8,336,314	78	372,861	58,727	2,092,793	822,815	11,683,408

SOURCE: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Part 3, Waterways and Harbors--Great Lakes, 1975 through 1982 (Vicksburg, Mississippi: annually).

[a] Includes St. Clair River and channels in Lake St. Clair.

[b] Includes the port of Chicago.

TABLE XVII-21. MEANS OF TRANSPORTATION TO WORK, IN MICHIGAN, BY COUNTY: CENSUS 1980

County	Workers 16 years & older	Percentage					
		Drive alone	Carpool	Use public transportation	Walked only	Using other means	Worked at home
Alcona	2,664	62.3	21.7	.7	6.9	2.8	5.3
Alger	3,044	57.3	20.9	.0	15.2	2.0	4.3
Allegan	32,943	69.0	21.0	.1	4.9	1.1	3.6
Alpena	11,333	72.5	15.9	.3	5.3	2.5	3.2
Antrim	5,374	64.1	19.9	1.0	7.8	3.1	3.8
Arenac	4,339	61.5	24.1	.0	7.0	1.2	5.8
Baraga	2,605	58.4	21.3	5.6	8.6	2.0	3.8
Barry	17,995	67.5	23.8	.1	4.2	1.0	3.1
Bay	44,759	74.9	18.5	.8	3.3	.5	1.7
Benzie	3,820	66.0	20.8	.0	7.3	1.4	4.1
Berrien	67,622	72.6	17.9	.3	5.0	1.3	2.5
Branch	15,624	69.5	19.7	.2	4.1	1.3	5.0
Calhoun	55,749	71.7	18.9	1.2	5.0	.8	2.1
Cass	19,097	71.4	19.6	.0	4.1	1.1	3.5
Charlevoix	7,429	65.3	19.8	.1	7.2	3.6	3.7
Cheboygan	6,521	69.0	18.2	.4	7.5	1.7	2.8
Chippewa	9,576	59.1	17.9	1.9	13.2	3.8	3.8
Clare	6,684	64.6	22.4	.2	6.6	1.3	4.6
Clinton	23,218	66.8	24.1	.4	3.7	1.0	3.8
Crawford	3,056	75.3	16.2	.7	5.6	.8	1.0
Delta	13,225	68.7	18.4	.9	6.9	2.1	2.8
Dickinson	9,480	70.2	16.3	.4	8.3	3.0	1.4
Eaton	39,371	70.5	21.1	.6	4.1	.8	2.5
Emmet	9,007	64.1	18.8	.1	11.1	2.1	3.5
Genesee	164,559	78.8	16.0	1.0	2.5	.5	.9

XVIII. COMMUNICATIONS

The Federal Communications Commission is the leading source of information in the field. Its publication Statistics of Communications Common Carriers gives much detailed information about telephones, radio, and television in the nation and in various states.

The Broadcasting Yearbook of Broadcasting Publications, Inc., lists a considerable amount of information relating to radio and television stations. This volume includes information by states, the facility involved, advertising rates charged, trading area covered, and so forth. Further information concerning Michigan newspapers is available in the Michigan Newspaper Directory and Rate Book of the Michigan Press Association.

Data on plant and customers of each telephone company are available from the records of the Michigan Public Service Commission in the Michigan Department of Commerce. The PSC is responsible for regulating telephone companies and other public utilities.

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TABLE XVIII-1. NUMBER AND CIRCULATION OF DAILY AND SUNDAY NEWSPAPERS IN MICHIGAN: 1964-1982

(Circulation figures in thousands)

	Daily newspapers		Sunday newspapers	
Year	Number	Net paid circulation	Number	Net paid circulation
1964	53	2,384	11	2,081
1965	53	2,353	11	2,040
1966	54	2,410	11	2,093
1967	54	2,492	11	2,167
1968	54	2,435	12	2,085
1969	55	2,415	12	2,080
1970	56	2,512	13	2,189
1971	55	2,447	13	2,187
1972	55	2,510	14	2,245
1973	55	2,569	14	2,276
1974	55	2,527	14	2,269
1975	52	2,448	15	2,361
1976	53	2,453	14	2,225
1977	52	2,457	14	2,237
1978	52	2,458	17	2,366
1979	52	2,458	17	2,363
1980	52	2,448	15	2,361
1981	52	2,463	15	2,400
1982	52	2,492	15	2,447

SOURCE: Bureau of the Census, Statistical Abstract of the United States, 1965 through 1981 (Washington, D.C.: annually).

TABLE XVIII-2. NUMBER OF COMMERCIAL BROADCAST STATIONS IN MICHIGAN: 1 JANUARY 1964-1980

Year	AM	FM	TV	Total
1964	114	47	16	177
1965	115	51	16	182
1966	116	58	17	191
1967	121	61	17	199
1968	122	67	18	207
1969	124	72	19	215
1970	124	76	20	220
1971	125	78	20	223
1972	125	84	22	231
1973	126	87	21	234
1974	124	92	21	237
1975	n.a.	n.a.	n.a.	n.a.
1976	128	107	24	259
1977	127	116	24	267
1978	127	109	24	260
1979	128	117	24	269
1980	131	122	24	277

SOURCE: Bureau of the Census, Statistical Abstract of the United States, 1965 through 1981 (Washington, D.C.: annually).
n.a.: Data not available.

TABLE XVIII-3. MICHIGAN DAILY NEWSPAPERS: 1984

County	City	Name[a]	Circulation[b]	
			Daily	Sunday
Alpena	Alpena	The Alpena News	12,751	--
Bay	Bay City	The Bay City Times	40,555	46,491
Berrien	St. Joseph	St. Joseph Herald Palladium	36,698	--
	Niles	The Daily Star	6,391	--
Branch	Coldwater	Daily Reporter	7,209	--
Calhoun	Albion	Albion Evening Recorder	3,143	--
	Battle Creek	Enquirer	30,541	38,220
	Marshall	Marshall Evening Chronicle	2,182	--
Cass	Dowagiac	Dowagiac Daily News	3,110	--
Delta	Escanaba	The Daily Press	10,369	--
Dickinson	Iron Mountain	The Daily News	10,305	--
Emmet	Petoskey	Petoskey News-Review	10,580	--
Genesee	Flint	The Flint Journal	109,890	113,221
Gogebic	Ironwood	Ironwood Daily Globe	8,932	--
Grand Traverse	Traverse City	Traverse City Record Eagle	23,951	--
Hillsdale	Hillsdale	Daily News	8,278	--
Houghton	Houghton	Daily Mining Gazette	12,300	--
Huron	Bad Axe	Huron Daily Tribune	8,849	--
Ingham	Lansing	Lansing State Journal	69,500	82,000
Ionia	Ionia	Ionia Sentinel-Standard	7,131	--
Isabella	Mt. Pleasant	Morning Sun	11,062	--
Jackson	Jackson	Jackson Citizen Patriot	39,000	43,000
Kalamazoo	Kalamazoo	Kalamazoo Gazette	63,308	77,148
Kent	Grand Rapids	The Grand Rapids Press	132,672	166,871
Lenawee	Adrian	The Daily Telegram	17,239	--
Macomb	Mt. Clemens	Macomb Daily	57,000	--
Manistee	Manistee	Manistee News-Advocate	5,795	--
Marquette	Marquette	The Mining Journal	17,459	--
Mason	Ludington	Ludington Daily News	8,252	--
Mecosta	Big Rapids	The Pioneer	5,466	--
Menominee	Menominee	The Herald-Leader	4,987	--

TABLE XVIII-3. MICHIGAN DAILY NEWSPAPERS: 1984 (cont.)

County	City	Name[a]	Circulation[b]	
			Daily	Sunday
Midland	Midland	Midland Daily News	18,441	--
Monroe	Monroe	The Monroe Evening News	27,137	--
Montcalm	Greenville	The Daily News	8,300	--
Muskegon	Muskegon	Muskegon Chronicle	46,285	48,793
Oakland	Pontiac	The Oakland Press	72,934	80,857
	Royal Oak	The Daily Tribune	41,000	--
Ottawa	Grand Haven	Grand Haven Tribune	9,841	--
	Holland	Holland Sentinel	19,653	--
Saginaw	Saginaw	The Saginaw News	56,406	59,808
St. Clair	Port Huron	The Times Herald	29,663	--
St. Joseph	Sturgis	Sturgis Journal	9,062	--
	Three Rivers	Three Rivers Commercial	4,850	--
Shiawassee	Owosso	The Argus Press	14,500	--
Van Buren	South Haven	South Haven Daily Tribune	4,468	--
Washtenaw	Ann Arbor	Ann Arbor News	46,772	53,283
	Ypsilanti	The Ypsilanti Press	15,557	--
Wayne	Detroit	Detroit Free Press	645,623	787,300
	Detroit	Detroit Legal News	2,480	--
	Detroit	Detroit News	657,015	861,004
Wexford	Cadillac	News	8,607	--

SOURCE: Michigan Press Association, Michigan Newspaper Directory 1985 (Lansing: 1985).

a. This list includes all members of the Michigan Press Association; no information is available for other papers which are not members.

b. Circulation figures are taken from the statement of ownership required by the U.S. Postal Service, Audit Bureau of Circulation, and Certified Audit Circulation.

TABLE XVIII-4. MICHIGAN WEEKLY AND SEMIWEEKLY NEWSPAPERS: 1984

County	City	Name[a]	Circulation[b]
Alcona	Harrisville	Alcona County Review	3,339
	Lincoln	Alcona County Herald	2,100
Alger	Munising	The Munising News	3,135
Allegan	Allegan	Allegan County News Gazette	6,394
	Fennville	Fenville Herald	1,247
	Plainwell	The Union Enterprise	2,314
	Saugatuck	The Commercial Record	2,354
	Wayland	The Wayland Globe	3,447
Antrim	Bellaire	Antrim County News	4,266
	Central Lake	The Torch	1,989
	Elk Rapids	Town Meeting	1,725
Arenac	Standish	Arenac County Independent	6,407
Baraga	L'Anse	L'Anse Sentinel	4,209
Barry	Freeport	Freeport News	600
	Hastings	Hastings Banner	3,749
	Middleville	Middleville Sun and Caledonia News	1,625
	Nashville	Maple Valley News	3,200
Bay	Bay City	Bay City Democrat and Bay County Legal News	885
	Bay City	Valley Farmer	2,367
	Pinconning	Pinconning Journal	1,536
Benzie	Frankfort	Benzie Co. Record Patriot	3,484
Berrien	Berrien Springs	The Journal Era	4,119
	Buchanan	Berrien County Record	2,352
	New Buffalo	New Buffalo Times	3,100
	Three Oaks	Galien River Gazette	1,354
	Watervliet	Watervliet Record	2,267
Branch	Bronson	The Bronson Journal	1,940
	Union City	The Register-Tribune	1,059
Calhoun	Albion	Journal of Albion	1,100
	Homer	Homer Index	890
Cass	Cassopolis	Cassopolis Vigilant	2,061
	Edwardsburg	Edwardsburg Argus	1,337
	Marcellus	The Marcellus News	1,485
Charlevoix	Boyne City	Charlevoix County Press	3,363
	Charlevoix	Charlevoix Courier	3,229
Cheboygan	Indian River	Straitsland Resorter	2,646
Clare	Clare	The Clare Sentinel	3,260
	Farwell	Farwell News and Review	8,000
	Harrison	Clare County Cleaver	4,067
Clinton	Dewitt	Dewitt/Bath Review	2,021
	St. Johns	Clinton County News	8,060
Crawford	Grayling	Crawford County Avalanche	4,157
Delta	Gladstone	Delta Reporter	3,600
Dickinson	Norway	Norway Current	1,120
Eaton	Bellevue	Bellevue Gazette	394
	Charlotte	Eaton Cnty. News Chronicle	3,206
	Grand Ledge	Independent	5,235
	Olivet	Olivet Optic News	226
	Sunfield	The Sunfield Sentinel	1,145

TABLE XVIII-4. MICHIGAN WEEKLY AND SEMIWEEKLY NEWSPAPERS: 1984 (cont.)

County	City	Name[a]	Circulation[b]
Genesee	Clio	The Clio Messenger	7,004
	Davison	Davison Index	8,500
	Fenton	Independent	15,321
	Fenton	Tri-County News	22,856
	Flint	Flint-Genesee County Legal News	1,049
	Flint	The Suburban News	26,500
	Flushing	Flushing Observer	5,648
	Grand Blanc	Grand Blanc Evening News	8,562
	Mt. Morris	Genesee Co. Herald	3,977
Gladwin	Gladwin	Gladwin County Record & Beaverton Clarion	6,852
Gogebic	Wakefield	The Wakefield News	1,349
Gratiot	Ithaca	Gratiot County Herald	6,487
Hillsdale	Camden	The Farmer's Advance	23,433
	Jonesville	The Jonesville Independent	762
Houghton	Calumet	Copper Island Sentinel	2,878
Huron	Harbor Beach	Harbor Beach Times	3,310
	Pigeon	Progress-Advance	3,016
	Sebewaing	Sebewaing Blade-Crescent	3,450
Ingham	East Lansing	Towne Courier	4,963
	Leslie	Leslie Local Independent	1,863
	Mason	Ingham County News	2,747
	Stockbridge	Town Crier	1,371
	Williamston	The Enterprise	2,038
Ionia	Clarksville	Clarksville Record	560
	Portland	Review & Observer	5,805
Iosco	East Tawas	Iosco County News	7,440
	Oscoda	Oscoda Press	6,618
Iron	Crystal Falls	The Diamond Drill	3,249
	Iron River	Iron River Reporter	4,810
Isabella	Shepherd	The Shepherd Argus	1,502
Jackson	Brooklyn	The Exponent	9,509
	Hanover	Hanover Horton Local	675
	Jackson	The Blazer & Shoppers Express	12,000
	Jackson	Jackson County Legal News	1,516
	Parma	The Parma News	827
	Springport	Springport Signal	2,200
Kalamazoo	Climax	The Climax Crescent	737
	Galesburg	The Argus	466
	Richland	Richland Journal	659
	Vicksburg	Commercial-Express	1,621
Kalkaska	Kalkaska	Leader and Kalkaskian	3,459
Kent	Byron Center	South Advance	15,000
	East Grand Rapids	Advance Suburban Life	13,200
	East Grand Rapids	Cadence	5,500
	Grand Rapids	Central Advance	11,000
	Grand Rapids	Northfield Advance	19,500
	Kentwood	Kentwood Advance	14,000
	Lowell	Grand Valley Ledger	2,415
	Sparta	North Kent Advance	16,000
	Walker	Walker-Westside Advance	25,500
	Wyoming	Wyoming Advance	22,000

TABLE XVIII-4. MICHIGAN WEEKLY AND SEMIWEEKLY NEWSPAPERS: 1984 (cont.)

County	City	Name[a]	Circulation[b]
Lake	Baldwin	Lake County Star	3,491
Lapeer	Imlay City	Tri-City Times	7,300
	Lapeer	Lapeer County Press	21,841
Leelanau	Leland	The Leelanau Enterprise	6,051
Lenawee	Blissfield	Blissfield Advance	2,807
	Clinton	Clinton Local	1,200
	Hudson	Hudson Post-Gazette	1,990
	Morenci	The Morenci Observer	4,960
	Tecumseh	The Tecumseh Herald	5,250
Livingston	Brighton	Brighton Argus	7,710
	Fowlerville	Fowlerville Review	4,526
	Hartland	Hartland Herald	6,442
	Howell	Livingston County Press	9,901
	Pinckney	Pinckney Post	6,638
Luce	Newberry	Newberry News	3,441
Mackinac	St. Ignace	St. Ignace News	5,874
Macomb	Armada	Armada Times	1,168
	New Baltimore	Anchor Bay Beacon	8,308
	Richmond	The Review	7,119
	Romeo	The Romeo Observer	4,786
	Romeo	Romeo/Washington Twshp. Advisor	6,652
	St. Clair Shores	St. Clair Shores-Roseville-East Detroit-Fraser Community News	41,500
	Sterling Heights	Sterling Heights Source-North	13,892
	Sterling Heights	Sterling Heights Source-South	14,467
	Sterling Heights	Sterling Heights-Utica-Shelby Advisor	38,735
	Utica	Fraser-Clinton Twp. Advisor	21,263
	Utica	Utica/Shelby Source	16,061
	Warren	Warren-Centerline Comm. News	38,400
	Warren	Macomb Reporter	25,500
Manistee	Bear Lake	Manistee County Pioneer Press	2,112
Menominee	Stephenson	Menominee County Journal	3,783
Missuakee	Lake City	Lake City Waterfront	4,165
Monroe	Dundee	Dundee Reporter	1,144
	Lambertville	Journal Herald	13,600
	Petersburg	Petersburg Sun	806
Montcalm	Carson City	The Carson City Gazette	1,880
	Howard City	Howard City Record	1,200
Montmorency	Atlanta	Montmorency County Tribune	4,750
Muskegon	Norton Shores	The Examiner	12,750
Newaygo	Fremont	Fremont Times-Indicator	9,036
Oakland	Birmingham	Eccentric	29,714
	Clarkston	Clarkston News	4,062
	Clarkston	The Reminder	11,000
	Farmington	Farmington Observer	16,185
	Ferndale	Legal Advisor-Oakland County	1,095
	Holly	Herald Advertiser	2,144
	Lake Orion	Lake Orion Review	3,414
	Milford	Milford Times	4,834

TABLE XVIII-4. MICHIGAN WEEKLY AND SEMIWEEKLY NEWSPAPERS: 1984 (cont.)

County	City	Name[a]	Circulation[b]
Oakland (cont.)	Milford	Milford-Highland Spinal Column	11,475
	Novi	Novi-Commerce Spinal Column	14,345
	Novi	Novi-Walled Lake News	5,481
	Oxford	The Oxford Leader	2,978
	Pontiac	Oakland County Legal News	1,408
	Rochester	The Rochester Clarion	7,412
	Rochester	The Rochester Eccentric	8,312
	Southfield	The Southfield Eccentric	16,301
	South Lyon	Herald	4,754
	Troy	The Eccentric	9,318
	Troy	Oakland Reporter	27,000
	Union Lake	Spinal Column Newsweekly	13,715
	West Bloomfield	The Eccentric	4,392
	West Bloomfield	West Bloomfield Spinal Column	10,500
Oceana	Hart	Oceana's Herald-Journal	6,173
Ogemaw	West Branch	Ogemaw County Herald	6,585
Ontonagon	Ontonagon	Ontonagon Herald	3,106
Osceola	Evart	Evart Review	2,517
	Marion	The Marion Press	1,535
	Reed City	Osceola County Herald	3,469
Oscoda	Mio	Oscoda County Herald	3,783
	Mio	Oscoda County News	2,825
Otsego	Gaylord	The Herald-Time	5,472
Ottawa	Coopersville	Ottawa Advance	9,000
	Grand Haven	Tri-Cities Advance	16,000
	Jenison	Grand Valley Advance	18,000
	Zeeland	Zeeland Record	1,793
Presque Isle	Onaway	Onaway Outlook	2,600
	Rogers City	Presque Isle County Advance	4,200
Roscommon	Houghton Lake	Houghton Lake Resorter	6,463
	Roscommon	Roscommon Herald-News	3,833
Saginaw	Bridgeport	Birch Run Weekly News	9,700
	Chesaning	The Courier	9,000
	Chesaning	St. Charles Valley News	5,100
	Frankenmuth	Frankenmuth News	4,375
	Saginaw	The Saginaw Press	1,014
	Saginaw	The Township Times	6,486
St. Clair	Algonac	The Courier-Journal	7,711
	Yale	Yale Expositor	2,315
St. Joseph	Colon	The Express	1,059
Sanilac	Brown City	The Brown City Banner	2,300
	Croswell	Jeffersonian Advisor	6,500
	Deckerville	Deckerville Recorder	1,870
	Marlette	Marlette Leader	2,127
	Minden City	Minden City Herald	1,477
	Sandusky	The Tribune	4,194
	Sandusky	Sanilac County News	4,300
Schoolcraft	Manistique	Pioneer-Tribune	3,650
Shiawassee	Durand	The Durand Express	2,460
	Perry	Shiawassee County Journal	1,175

TABLE XVII-21. MEANS OF TRANSPORTATION TO WORK, IN MICHIGAN, BY COUNTY: CENSUS 1980 (cont.)

County	Workers 16 years & older	Percentage					
		Drive alone	Carpool	Use public transportation	Walked only	Using other means	Worked at home
Gladwin	5,635	62.2	26.0	.7	5.3	1.2	4.2
Gogebic	6,190	54.8	22.1	3.7	14.8	2.2	2.1
Grand Traverse	22,946	71.6	17.7	.2	4.5	2.2	3.5
Gratiot	14,941	64.1	20.7	.5	8.0	1.1	5.3
Hillsdale	15,703	69.3	17.9	.3	6.2	.9	5.1
Houghton	11,505	48.5	22.2	1.2	22.8	2.5	2.6
Huron	12,740	60.5	18.1	.2	9.7	1.1	10.0
Ingham	121,948	65.4	17.0	3.9	9.5	2.0	1.9
Ionia	18,234	61.2	27.4	.3	5.8	1.2	3.8
Iosco	9,724	68.4	17.0	.4	7.8	3.2	2.9
Iron	4,169	58.2	17.7	6.1	11.3	.9	5.5
Isabella	20,919	57.6	18.3	.4	18.4	1.2	3.8
Jackson	58,382	74.0	18.1	1.2	3.9	.8	1.8
Kalamazoo	96,157	71.6	16.6	2.7	6.0	1.1	1.7
Kalkaska	3,340	71.3	17.8	.6	4.5	1.7	3.9
Kent	196,123	73.1	17.9	2.2	3.9	1.0	1.6
Keweenaw	493	50.9	22.3	.4	20.2	3.4	2.6
Lake	1,996	62.1	22.5	1.2	9.4	1.5	3.1
Lapeer	25,073	66.9	24.6	.1	3.9	.6	3.6
Leelanau	5,491	65.7	19.3	.1	6.8	1.7	6.1
Lenawee	35,412	70.1	20.0	.3	5.4	1.0	2.9
Livingston	40,101	72.6	21.8	.2	2.2	.7	2.2
Luce	2,210	62.3	18.2	.1	12.1	3.8	3.2
Mackinac	3,069	54.3	21.6	.6	12.1	7.0	4.1
Macomb	297,114	78.4	16.9	1.2	2.0	.4	.8

TABLE XVII-21. MEANS OF TRANSPORTATION TO WORK, IN MICHIGAN, BY COUNTY: CENSUS 1980 (cont.)

County	Workers 16 years & older	Percentage					
		Drive alone	Carpool	Use public transportation	Walked only	Using other means	Worked at home
Manistee	7,624	66.9	18.0	1.5	9.2	1.0	3.2
Marquette	29,244	57.2	24.1	.7	13.7	2.3	1.8
Mason	9,488	69.1	17.6	.8	7.2	1.3	3.6
Mecosta	13,040	55.8	22.6	.6	14.4	1.7	4.7
Menominee	9,571	68.4	17.2	.2	6.1	2.7	5.2
Midland	29,274	73.7	19.6	.6	2.9	.7	2.2
Missaukee	3,213	61.8	19.0	.2	7.2	1.1	10.3
Monroe	50,471	76.7	17.4	.4	2.6	.8	1.8
Montcalm	17,478	62.5	26.1	.1	6.0	1.2	3.8
Montmorency	1,977	66.5	20.2	.2	6.1	3.6	3.2
Muskegon	59,127	75.2	17.8	.9	3.4	1.0	1.5
Newaygo	11,982	62.2	25.6	.2	6.7	.9	4.1
Oakland	453,787	79.9	15.0	1.1	2.1	.5	1.1
Oceana	7,217	59.7	23.9	.0	8.3	1.9	6.0
Ogemaw	4,494	71.5	14.5	.2	5.7	1.5	6.3
Ontonagon	3,187	55.9	24.2	3.2	10.1	1.9	4.3
Osceola	6,250	61.2	23.7	.1	7.7	1.6	5.3
Oscoda	2,001	67.2	18.1	.3	7.3	2.5	4.2
Otesgo	5,369	75.2	14.6	.1	5.1	1.4	3.3
Ottawa	69,480	73.3	18.1	.4	4.6	1.1	2.2
Presque Isle	4,187	67.7	17.4	.2	8.5	2.9	3.0
Roscommon	4,450	69.3	15.6	.2	8.2	1.7	4.6
Saginaw	81,979	77.2	16.6	.3	3.3	.7	1.6
St. Clair	50,171	71.6	20.5	.6	4.2	.8	2.0
St. Joseph	22,476	70.2	19.6	.2	5.2	1.2	3.3

TABLE XVII-21. MEANS OF TRANSPORTATION TO WORK, IN MICHIGAN, BY COUNTY: CENSUS 1980 (cont.)

County	Workers 16 years & older	Percentage					
		Drive alone	Carpool	Use public transportation	Walked only	Using other means	Worked at home
Sanilac	13,535	60.3	20.2	.3	7.9	1.0	10.0
Schoolcraft	2,746	61.1	23.6	.0	9.3	2.0	3.7
Shiawassee	26,902	70.0	21.2	.1	4.7	.8	2.8
Tuscola	19,675	66.9	22.8	.1	5.1	1.0	3.8
Van Buren	24,474	67.2	21.5	.1	5.7	1.2	4.0
Washtenaw	124,947	64.2	16.9	3.8	10.9	1.5	2.3
Wayne	843,481	71.8	17.1	6.4	3.2	.5	.7
Wexford	8,811	68.2	19.7	.6	6.6	1.6	3.0
MICHIGAN	3,630,817	72.4	17.8	2.4	4.4	.9	1.8

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF3, computer tape.

TABLE XVIII-4. MICHIGAN WEEKLY AND SEMIWEEKLY NEWSPAPERS: 1984 (cont.)

County	City	Name[a]	Circulation[b]
Tuscola	Caro	Tuscola County Advertiser	14,172
	Cass City	Cass City Chronicle	3,790
	Mayville	Mayville Monitor	1,354
	Millington	Millington Herald-Lakeville Aerial	2,829
	Vassar	Pioneer Times	2,326
Van Buren	Bangor	The Express	570
	Decatur	Decatur Republican	1,850
	Paw Paw	The Courier-Leader	3,430
Washtenaw	Chelsea	Chelsea Standard	4,094
	Dexter	The Dexter Leader	1,895
	Manchester	The Manchester Enterprise	1,618
	Milan	Area Leader	2,789
Wayne	Allen Park	The Allen Parker	11,175
	Belleville	Belleville Enterprise	4,914
	Canton Twp.	Canton Eagle	1,778
		Canton Observer	9,191
	Dearborn	Dearborn Press & Guide	25,000
	Dearborn Heights	Dearborn Heights Leader	11,000
	Ecorse	Ecorse Advertiser	6,000
		Ecorse Enterprise	950
	Flat Rock	The Guardian	5,100
	Garden City	Garden City Observer	10,296
	Grosse Ille	The Downriver News-Herald	7,600
	Grosse Ille Twp.	The Ille Camera	2,777
	Grosse Pointe	Grosse Pointe News	17,276
	Hamtramck	The Citizen	12,456
	Inkster	Inkster Ledger Star	2,579
	Lincoln Park	The Lincoln Parker	19,975
	Livonia	Livonia Observer	27,631
	Melvindale	Melvindale Messenger	3,625
	Northville	Record	5,353
	Plymouth	The Community Crier	21,041
		Plymouth Observer	9,191
	Redford	Redford Observer	11,161
	River Rouge	River Rouge Herald	6,800
	Riverview	The Riverview News-Herald	4,700
	Flatrock	The Pulse Weekly News and Woodhaven Progress	10,868
	Romulus	Romulus Roman	5,039
	Southgate	The Southgate Sentinel	8,825
	Taylor	The Taylor Tribune	17,875
	Trenton	Trenton News-Herald	7,800
		Trenton Times	7,600
	Wayne	Wayne Eagle	6,069
	Westland	Westland Eagle	17,459
		Westland Observer	10,296
	Woodhaven	The News-Herald	3,300
	Wyandotte	Wyandotte News Herald	16,600

SOURCE: Michigan Press Association, Michigan Newspaper Directory and Rate Book, 1985.

a. This list includes all members of the Michigan Press Association; no information is available for other papers which are not members.

b. Circulation figures are taken from the statement of ownership required by the U.S. Postal Service, Audit Bureau of Circulation, and Certified Audit Circulation.

TABLE XVIII-7. TELEPHONE DISTRIBUTION BY OWNERSHIP AND TYPE OF SERVICE IN MICHIGAN AND THE UNITED STATES: JANUARY 1, 1982

	Michigan	United States
Total number of telephones	7,253,301	181,891,596
Distribution of telephones -		
By ownership		
Bell System companies	6,280,439	142,386,024[a]
Bell associates (SNET & CINN)	--	3,824,456
Bell Service	2,085	364,305[b]
Independent companies	970,777	35,316,811
By type of service		
Residence	5,526,140	134,111,520
Business	1,727,161	47,780,076
Resident population	9,295,000	230,508,000[c]
Households	3,262,000	83,100,000
Total telephone per 100 population	78.03	78.91
Residence main per 100 households	97.61	95.66

SOURCE: Federal Communications Commission and American Telephone & Telegraph Company (Comptrollers-Accounting Division), special release.

a. American Telephone and Telegraph Company and its principal telephone subsidiaries. Excludes 491,741 private line telephones.
b. Non-company telephones for which switching service is provided. Principally government installations (business) and "farmers" lines (residences).
c. Population including armed forces overseas was 231,009,000.

XIX. ENERGY PRODUCTION AND CONSUMPTION

The Energy Administration, Michigan Department of Commerce, has developed data on energy usage and prospects for the state, in total and by type. The U.S. Department of Energy is another source of broad energy statistics. Consumption of motor fuels is estimated by the U.S. Highway Administration on the basis of motor fuel tax receipts. The Michigan Public Service Commission publishes financial statistics on the operations of natural gas distribution and electric utilities. The Federal Power Commission is a leading source of data on the physical aspects of electricity production. The American Gas Association publishes data on gas utilities in its annual Gas Facts.

Consumption of fuels for heat and power is a regular feature of the Census of Manufactures, conducted twice each decade. The Housing Census yields information about the kinds of fuel used for space and water heating and cooking.

Related data on oil and gas wells and natural gas processing appear in chapter XIII. A list of oil refineries in the state is presented in chapter XV.

Data on the plant and consumer of each electric and gas distribution utility are available from the records of the Michigan Public Service Commission in the Michigan Department of Commerce. The PSC is responsible for regulating public utilities.

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TABLE XIX-1. PER CAPITA AND TOTAL ENERGY CONSUMPTION IN MICHIGAN AND THE UNITED STATES: 1961-1983

	Per capita (Million BTU)		Total (Trillion BTU)		Michigan as a percentage of United States	
Year	Michigan	United States	Michigan	United States	Per capita	Total
1961	237	244	1,878.1	44,722.8	97	4.2
1962	250	252	1,989.3	46,797.7	99	4.2
1963	259	258	2,094.0	48,605.3	100	4.3
1964	262	266	2,150.9	50,775.6	99	4.2
1965	274	274	2,288.9	52,989.1	100	4.3
1966	288	286	2,448.1	55,992.1	101	4.4
1967	291	293	2,507.7	57,891.8	99	4.3
1968	304	308	2,646.0	61,323.3	99	4.3
1969	314	321	2,757.1	64,529.0	98	4.3
1970	308	328	2,736.5	66,828.1	94	4.1
1971	317	331	2,844.0	68,299.7	96	4.2
1972	332	344	2,995.7	71,627.8	97	4.2
1973	339	355	3,078.5	74,602.5	95	4.1
1974	321	344	2,925.9	72,755.1	93	4.0
1975	314	332	2,858.8	70,709.5	95	4.0
1976	327	347	2,974.7	74,509.3	94	4.0
1977	314	353	2,871.8	76,335.5	89	3.8
1978	318	358	2,925.7	78,186.3	89	3.7
1979	315	359	2,901.6	78,903.1	88	3.7
1980	299	334	2,754.3	76,021.8	90	3.6
1981	280	325	2,589.0	74,013.9	86	3.5
1982	267	305	2,437.0	70,775.0	88	3.4
1983	258	301	2,341.0	70,508.0	86	3.3

SOURCE: Developed from the Energy Information Administration, U.S. Department of Energy, Federal Energy Data System (FEDS) Statistical Summary Update, (Washington, D.C.: U.S. Government Printing Office, 1982), Table 1; Table I-2; and Michigan Energy Data, Energy Information Administration, U.S. Department of Energy (Washington, D.C.), 1983; and State Energy Data Report Supplement: Consumption Estimates 1960-1983 (Washington, D.C.: 1985).

TABLE XVIII-5. BUSINESS AND RESIDENCE TELEPHONES SERVICED BY A.T. & T. IN MICHIGAN AND THE UNITED STATES: YEARS ENDED 31 DECEMBER 1963-1982

	Michigan				United States			
Year	Business	Residential	Total	Percentage of households with service[a]	Business	Residential	Total	Percentage of households with service[a]
1963	914,200	2,726,300	3,640,500	88	23,609,400	60,840,900	84,450,300	81
1964	972,700	2,862,000	3,834,700	91	24,716,600	64,070,800	88,787,400	83
1965	1,020,400	3,044,600	4,065,000	93	26,008,300	67,650,500	93,658,800	85
1966	1,083,900	3,217,100	4,301,000	94	27,413,500	71,372,100	98,785,600	98
1967	1,139,900	3,368,000	4,507,900	94	28,929,300	74,822,600	103,751,900	88
1968	1,198,600	3,512,800	4,711,400	93	30,356,100	78,899,500	109,255,600	89
1969	1,265,800	3,691,500	4,957,300	95	32,220,600	82,980,100	115,200,700	90
1970	1,307,900	3,826,800	5,134,700	95	33,304,800	86,850,000	120,221,000	92
1971	1,332,400	4,012,200	5,344,600	97	34,444,900	90,695,900	125,140,800	93
1972	1,393,000	4,193,000	5,586,000	95	35,989,500	95,613,000	131,602,500	92
1973	1,440,927	4,419,084	5,860,011	98	37,434,884	100,853,505	138,228,389	94
1974	1,487,568	4,577,214	6,064,782	98	38,748,513	105,222,939	143,971,452	94
1975	1,490,220	4,761,455	6,251,675	98	39,497,650	109,510,153	149,007,803	94
1976	1,548,286	4,977,160	6,525,446	99	40,682,411	114,490,857	155,173,288	95
1977	1,611,508	5,157,834	6,769,342	100	42,319,549	119,752,597	162,072,146	96
1978	1,654,291	5,326,848	6,981,139	100	44,284,209	124,742,739	169,026,948	97
1979	1,730,220	5,514,554	7,244,774	101	45,951,980	129,583,132	175,535,112	98
1980	1,737,373	5,567,635	7,305,008	99	47,213,748	133,210,275	180,424,023	96
1981	1,727,161	5,526,140	7,253,301	98	47,780,076	134,111,520	181,891,596	96
1982	1,502,873	4,567,734	6,079,607	--	38,602,973	101,502,535	140,105,508	--

SOURCE: Federal Communications Commission, Statistics of Communications Common Carriers, (Washington, D.C.: annually), Table 6 (1984).

a. Households with service are the sum of residence main, apartment house PBX and residence service main telephones, and other residence PBX systems. There tends to be a slight overstatement of the proportion of households with telephone service. Collection of this statistic discontinued after 1981.

TABLE XVIII-6. SELECTED DATA OF CLASS A TELEPHONE CARRIERS IN MICHIGAN: YEARS ENDED 31 DECEMBER 1962-1982

Year	Miles of wire in cable (1,000)	Miles of aerial wire (1,000)	Miles of radio relay system	Central offices	Number of calls originating from company and service telephones[a] (millions)	
					Local	Toll
1962	15,830	367	1,657	661	5,412	171
1963	16,534	360	1,749	667	5,704	186
1964	17,686	337	1,803	705	6,009	306
1965	19,062	318	2,048	712	6,450	235
1966	20,841	308	2,206	725	6,755	264
1967	23,032	288	2,191	805	7,220	295
1968	25,217	264	2,280	817	7,441	333
1969	27,503	226	2,432	833	7,956	351
1970	29,510	184	2,421	837	8,324	383
1971	31,279	157	2,588	848	8,887	407
1972	33,273	128	2,335	862	9,278	566
1973	35,825	108	2,801	883	9,672	676
1974	38,416	97	2,853	903	10,113	699
1975	40,691	76	3,473	926	10,116	976
1976	42,532	61	2,939	934	10,615	1,055
1977	44,328	52	2,362	941	11,105	1,186
1978	46,438	39	2,324	954	11,752	1,238
1979	48,869	33	2,357	959	12,080	1,286
1980	50,743	27	2,917	972	12,470	1,328
1981	52,941	24	2,648	981	13,191	1,476
1982	54,170	20	3,279	987	12,545	1,566

SOURCE: Federal Communications Commission, Statistics of Communications Common Carrier, (Washington, D.C.: annually), Table 8 (1984).

a. Partly estimated.

TABLE XIX-3. PER CAPITA ENERGY CONSUMPTION IN MICHIGAN AND THE UNITED STATES: 1960, 1970, AND 1980-1983

	Consumption per capita					
	1960	1970	1980	1981	1982	1983
	(Thousands of BTU)					
Residential						
Michigan	57	77	78	74	73	73
United States	46	66	67	64	64	63
Commercial						
Michigan	24	38	46	43	43	43
United States	26	41	47	46	47	46
Industrial						
Michigan	104	123	106	99	89	89
United States	112	141	135	127	113	111
Transportation						
Michigan	50	67	67	65	62	54
United States	59	79	87	85	82	82
Total						
Michigan	235	305	298	281	267	258
United States	243	327	335	323	305	301

SOURCE: Energy Information Administration, Department of Energy, State Energy Data Report Supplement, Consumption Estimates: 1960-1983, (Washinton, D.C.: May 1985).

TABLE XIX-4. MICHIGAN ENERGY CONSUMPTION IN TRILLIONS OF BRITISH THERMAL UNITS BY THE RESIDENTIAL SECTOR: 1961-1983

Year	Coal	Natural gas	Petroleum products	Electricity sales	Electrical[a] energy losses	Total energy consumed
1961	23.4	225.7	114.2	31.3	76.6	471.2
1962	22.8	242.7	117.1	32.6	78.5	493.7
1963	19.8	250.4	114.9	34.0	81.3	500.4
1964	15.8	259.0	109.1	36.1	85.9	505.9
1965	17.7	279.7	111.8	38.6	92.1	539.9
1966	18.3	296.3	114.2	42.1	100.9	571.7
1967	13.6	312.2	123.6	45.1	107.7	602.2
1968	13.1	325.5	127.3	49.6	118.2	633.6
1969	11.3	343.6	126.3	54.0	129.1	664.3
1970	8.8	350.6	129.8	58.4	141.6	689.1
1971	8.9	354.4	142.1	62.0	150.1	717.5
1972	6.3	364.9	152.3	66.2	159.0	748.6
1973	6.5	348.4	147.7	69.1	165.5	737.2
1974	5.3	354.4	136.4	69.2	168.9	734.1
1975	4.1	341.6	134.2	71.3	172.0	723.1
1976	4.2	345.9	134.8	72.8	175.1	732.8
1977	3.6	304.9	133.5	74.1	178.8	694.9
1978	3.2	333.5	135.1	74.6	182.5	728.9
1979	1.6	376.0	80.6	75.2	180.8	714.2
1980	2.9	396.6	66.4	76.0	184.6	726.5
1981	1.9	370.8	57.9	73.5	174.3	678.5
1982	2.3	368.1	51.8	72.6	174.4	669.2
1983	1.8	351.3	51.2	74.9	179.6	658.7

SOURCE: Energy Information Administration, U.S. Department of Energy, Michigan Energy Data and U.S. Energy Data, June 1983; and State Energy Data Report, May 1985.

a. Incurred in the generation and transmission of electricity plus plant use and unaccounted for electrical energy losses that are attributed to each sector in proportion to the sector's share of total electricity sales in the state.

TABLE XIX-5. MICHIGAN ENERGY CONSUMPTION IN TRILLIONS OF BRITISH THERMAL UNITS BY THE COMMERICAL SECTOR: 1961-1983

Year	Coal	Natural gas	Petroleum products	Electricity sales	Electrical[a] energy losses	Total energy consumed
1961	42.7	44.3	32.8	22.7	55.5	198.0
1962	41.6	66.8	33.5	24.4	58.8	225.1
1963	35.6	70.8	33.5	26.4	63.1	229.4
1964	27.9	76.7	32.5	28.6	68.2	234.0
1965	31.4	87.5	32.7	30.6	73.2	255.5
1966	32.5	98.4	32.1	33.2	79.7	276.0
1967	24.5	111.2	30.1	35.3	84.4	285.7
1968	23.4	120.8	31.4	38.5	91.8	305.7
1969	20.2	134.1	32.6	41.3	98.7	326.8
1970	15.4	136.8	33.3	44.0	106.9	336.4
1971	15.7	150.7	34.8	46.6	112.9	360.8
1972	11.2	164.3	38.3	49.2	118.1	381.0
1973	11.0	183.9	36.6	52.7	126.4	410.6
1974	8.7	193.7	34.2	51.9	126.5	414.9
1975	7.0	185.6	33.1	49.6	119.7	394.9
1976	7.4	181.6	36.0	51.8	124.6	401.4
1977	6.3	133.8	36.5	53.8	129.7	360.0
1978	5.1	145.2	35.4	54.5	133.4	373.7
1979	2.4	185.6	22.0	56.7	136.2	402.9
1980	5.3	194.8	26.2	57.0	138.5	421.8
1981	3.4	179.1	21.2	57.1	135.5	396.3
1982	4.2	174.7	20.6	56.9	136.7	393.0
1983	3.0	164.9	19.8	58.3	139.8	385.8

SOURCE: Energy Information Administration, U.S. Department of Energy Michigan Energy Data and U.S. Energy Data, June 1983, and State Energy Data Report, May 1985.

a. Incurred in the generation and transmission of electricity plus plant use and unaccounted for electrical energy losses.

TABLE XIX-6. MICHIGAN ENERGY CONSUMPTION IN TRILLIONS OF BRITISH THERMAL UNITS BY THE INDUSTRIAL SECTOR: 1961-1983

Year	Coal	Natural gas	Petroleum products	Indus. Hydro-power	Electricity sales	Electrical[a] energy losses	Total energy consumed
1961	330.7	142.3	205.3	1.6	41.6	101.7	823.2
1962	350.5	145.1	208.3	1.4	47.7	114.9	867.9
1963	393.2	153.3	208.7	1.3	53.3	127.7	937.5
1964	396.0	172.3	197.1	1.4	58.4	139.2	964.5
1965	401.3	198.6	206.5	1.5	66.0	157.7	1,031.5
1966	411.7	232.2	207.9	1.6	73.4	176.2	1,103.0
1967	376.2	270.7	194.7	1.8	74.8	178.5	1,096.7
1968	403.5	260.5	196.1	1.8	82.2	196.1	1,140.3
1969	361.2	298.0	207.1	1.7	88.4	211.0	1,167.2
1970	346.8	269.9	204.5	1.3	85.9	208.4	1,116.8
1971	354.2	283.8	196.5	1.6	93.1	225.4	1,154.7
1972	361.5	281.9	215.6	1.5	101.9	244.7	1,207.2
1973	307.5	330.5	222.7	1.7	112.3	269.0	1,243.8
1974	224.2	328.5	203.3	1.4	103.3	252.0	1,112.6
1975	253.0	306.4	186.4	1.3	98.5	237.7	1,083.3
1976	228.7	310.9	220.5	1.3	113.3	272.7	1,147.4
1977	188.6	272.1	241.8	1.3	117.8	284.2	1,105.8
1978	169.3	282.9	234.8	1.4	121.5	297.2	1,107.2
1979	208.3	278.7	182.7	1.3	120.1	288.8	1,079.8
1980	198.2	254.8	172.4	1.2	104.6	254.3	985.5
1981	181.7	237.3	139.0	1.2	105.3	249.9	914.4
1982	166.3	198.0	120.5	1.2	94.2	226.2	806.4
1983	158.6	180.8	120.8	1.2	102.9	246.7	810.9

SOURCE: Energy Information Administration, U.S. Department of Energy, Michigan Energy Data, June 1983; and State Energy Data Report, May 1985.

[a] Incurred in the generation and transmission of electricity plus plant use and unaccounted for electrical energy losses.

TABLE XIX-7. MICHIGAN ENERGY CONSUMPTION IN TRILLIONS OF BRITISH THERMAL UNITS BY THE TRANSPORTATION SECTOR: 1961-1983

Year	Coal	Natural gas	Petroleum products	Electricity sales	Electrical[a] energy losses	Total energy consumed
1961	1.5	1.8	385.4	0.4	1.1	390.2
1962	1.4	1.9	400.6	0.5	1.1	405.5
1963	1.5	2.7	423.0	0.5	1.1	428.8
1964	1.5	4.7	441.0	0.5	1.2	449.0
1965	1.3	4.7	456.5	0.5	1.2	464.1
1966	1.2	7.1	485.8	0.5	1.1	495.8
1967	0.9	9.1	509.6	0.4	1.1	521.1
1968	0.9	8.5	554.2	0.4	1.0	565.0
1969	0.6	9.0	585.7	0.4	0.9	596.7
1970	0.6	10.7	581.7	0.4	1.0	594.3
1971	0.5	15.9	591.6	0.4	1.0	609.4
1972	0.4	16.6	642.9	0.3	0.8	661.0
1973	0.2	12.3	675.3	0.3	0.8	688.9
1974	0.1	11.2	654.4	0.4	0.9	667.0
1975	(b)	10.4	650.0	0.2	0.5	661.2
1976	(b)	12.0	684.6	0.2	0.5	697.4
1977	(b)	11.8	699.6	0.2	0.5	712.2
1978	0.0	3.6	719.4	0.2	0.5	723.7
1979	0.0	12.6	677.5	0.2	0.6	690.9
1980	0.0	12.7	607.0	0.2	0.6	620.5
1981	0.0	14.0	584.9	0.3	0.7	599.9
1982	0.0	13.7	551.7	0.3	0.7	566.4
1983	0.0	8.1	476.4	0.3	0.7	485.5

SOURCE: Energy Information Administration, U.S. Department of Energy, Michigan Energy Data and U.S. Energy Data, June 1983; and State Energy Data Report, May 1985.

a. Incurred in the generation and transmission of electricity plus plant use and unaccounted for electrical energy losses.

b. Represents: small, non-zero value.

TABLE XIX-8. MICHIGAN ENERGY CONSUMPTION IN TRILLIONS OF BRITISH THERMAL UNITS BY THE ELECTRIC UTILITIES: 1961-1983

Year	Coal	Natural gas	Petroleum products	Hydro-electric power	Nuclear electric power	Total energy consumed
1961	255.4	8.5	2.9	30.0	0.0	296.7
1962	298.5	2.7	2.8	17.3	0.0	321.3
1963	329.6	2.1	2.0	8.4	1.5	344.2
1964	358.8	2.5	2.3	10.9	2.3	377.7
1965	399.8	3.1	2.4	13.1	2.1	420.5
1966	457.5	2.6	4.5	16.9	4.0	485.5
1967	478.0	4.9	7.1	19.0	5.8	514.8
1968	519.1	7.1	7.3	15.6	4.8	553.8
1969	541.8	16.0	8.9	13.7	4.4	584.8
1970	487.0	66.3	34.0	12.4	4.1	603.8
1971	496.1	72.0	54.3	22.4	4.2	648.9
1972	497.4	60.5	59.6	43.0	22.9	683.6
1973	494.2	63.9	75.0	46.3	32.5	711.9
1974	488.4	70.5	85.2	49.1	4.6	697.8
1975	494.8	58.2	97.8	13.6	79.0	743.5
1976	482.5	54.7	99.1	38.4	109.4	784.2
1977	495.4	33.1	98.3	72.2	110.2	809.1
1978	496.5	37.6	127.9	79.5	143.4	884.9
1979	564.4	39.1	97.9	12.3	164.7	860.5
1980	532.0	27.3	65.0	70.3	173.3	868.0
1981	549.8	19.9	37.6	58.2	188.2	853.7
1982	521.3	13.2	15.6	33.9	165.3	749.2
1983	534.2	13.0	8.6	24.8	181.4	762.0

SOURCE: U.S. Department of Energy, Energy Information Administration, State Energy Data Report (Washington, D.C.: May 1985).

TABLE XIX-10. MICHIGAN RESIDENTIAL SECTOR RETAIL ENERGY PRICES: 1970-1983

Year	Electricity (cents/kWh)	Natural gas (dollars/Mcf)	#2 fuel oil (cents/gallon)	Gasoline (cents/gallon)	Liquified Petroleum gases (cents/gallon)
1970	2.51	1.05	17.95	33.82	11.34
1971	2.51	1.07	18.46	34.35	11.38
1972	2.57	1.08	18.62	34.23	11.49
1973	2.79	1.13	21.12	39.53	14.46
1974	3.09	1.16	33.86	57.53	21.10
1975	3.84	1.68	36.99	59.59	22.72
1976	4.10	1.92	40.56	62.45	26.74
1977	4.32	2.24	46.82	66.24	31.56
1978	4.73	2.36	50.02	68.72	31.38
1979	4.89	2.73	72.03	93.31	34.59
1980	5.52	3.18	100.10	129.37	63.00
1981	6.08	3.94	124.00	143.50	76.00[p]
1982	6.76	4.79	113.90	n.a.	n.a.
1983	6.25	n.a.	106.40	96.00	81.2

SOURCE: Consumers Power Company, Detroit Edison Company, Michigan Public Service Commission, U.S. Department of Labor, U.S. Department of Energy, American Automobile Association as reported in Michigan Department of Commerce, Energy Information Administration, *Michigan Energy Data Book*, (Lansing: 1980), p. 115; and U.S. Department of Energy, special release.

n.a.: Data not available.
p: Preliminary

NOTE: Prices are based on the following assumptions: *Electricity* - average monthly billing for 500 kWh usage; *natural gas* - billing charge for 175 Mcf annual usage; *#2 fuel oil* - average monthly price in the Detroit area; *gasoline* - average leaded and unleaded prices derived from a survey of 300 major brand stations along main state travel routes; *liquified petroleum gases* - average regional and national prices.

TABLE XIX-11. MICHIGAN COMMERCIAL SECTOR RETAIL ENERGY PRICES: 1971-1980

Year	Electricity (cents/kWh)	Natural gas (dollars/Mcf)	Distillate (cents/gallon)	Residual (dollars/barrel)
1971	2.37	.87	15.26	4.17
1972	2.47	.90	15.33	4.37
1973	2.58	.96	16.58	5.27
1974	3.01	1.13	30.08	11.07
1975	3.59	1.48	32.52	12.72
1976	4.01	1.82	35.60	11.76
1977	4.32	2.12	42.34	14.11
1978	4.67	2.23	44.45	13.67
1979	4.93	2.58	65.87	16.86
1980	5.49	3.19	91.72	22.79

SOURCE: Michigan Department of Commerce. Energy Information Administration, *State Physical Unit Price Data Base*.

TABLE XIX-12. MICHIGAN INDUSTRIAL SECTOR RETAIL ENERGY PRICES: 1971-1980

Year	Electricity (cents/kWh)	Natural gas (dollars/Mcf)	Distillate (cents/gallon)	Residual (dollars/ barrel)	Kerosene (cents/ gallon)	LPG (cents/ gallon)
1971	1.29	.56	9.67	4.08	10.23	12.89
1972	1.34	.63	9.66	4.27	10.22	13.26
1973	1.44	.69	11.00	5.15	11.64	14.00
1974	1.90	.91	28.55	10.83	30.22	22.47
1975	2.48	1.23	31.55	12.44	33.05	22.84
1976	2.70	1.53	32.00	11.63	33.59	25.78
1977	2.93	1.81	37.90	13.69	40.20	30.79
1978	3.29	1.90	40.79	13.55	43.40	28.89
1979	3.54	2.25	52.12	14.70	68.63	34.97
1980	4.20	2.89	85.21	20.53	91.53	46.63

SOURCE: Michigan Department of Commerce, Energy Information Administration, *State Physical Unit Price Data Base*.

TABLE XIX-13. ESTIMATED PROVED RECOVERABLE RESERVES OF WET NATURAL GAS IN MICHIGAN AND THE UNITED STATES: 31 DECEMBER 1953-1983

(Billions of cubic feet)

	Michigan wet natural gas				United States
Year	Non-associated[a]	Associated-dissolved[b]	Underground storage[c]	Total	United States Total
1953	34,629	46,780	194,110	275,519	211,447,132
1954	31,194	85,703	213,203	330,100	211,710,732
1955	46,764	73,013	206,097	325,874	223,697,445
1956	45,596	82,098	234,092	361,786	237,774,569
1957	84,941	80,980	278,107	444,028	246,569,255
1958	121,669	104,627	271,817	498,113	254,142,037
1959	116,255	113,889	285,259	515,403	262,596,593
1960	116,015	128,427	341,316	585,758	263,758,800
1961	138,966	158,562	369,136	666,664	267,727,671
1962	128,620	144,733	377,207	650,560	273,765,604
1963	112,403	138,924	471,485	722,812	276,151,233
1964	151,853	127,372	495,051	774,276	281,251,454
1965	108,141	127,174	510,489	745,804	286,468,923
1966	73,556	118,999	580,576	773,131	289,332,805
1967	90,774	87,711	582,427	760,912	292,907,703
1968	77,274	79,909	600,243	757,426	287,349,856
1969	73,268	82,186	595,510	750,964	275,108,835
1970	211,134	112,530	616,007	939,671	290,746,408
1971	179,479	184,541	652,462	1,016,482	278,805,618
1972	293,938	385,580	617,297	1,296,815	266,084,846
1973	492,825	431,086	624,597	1,548,508	249,950,207
1974	477,613	455,230	525,411	1,458,254	237,132,497
1975	483,268	536,766	586,715	1,606,749	228,200,176
1976	528,778	524,475	544,893	1,598,146	216,026,074
1977	614,184	587,542	589,474	1,791,200	208,877,878
1978	607,556	562,190	598,835	1,768,581	200,301,707
1979	605,819	531,784	660,320	1,797,923	194,916,624
1979[d]	601,000	733,000	n.a.	1,334,000	208,335,000
1980[d]	668,000	883,000	n.a.	1,551,000	206,259,000
1981[d]	494,000	758,000	n.a.	1,252,000	209,434,000
1982	481,000	719,000	n.a.	1,200,000	209,254,000
1983	529,000	824,000	n.a.	1,353,000	209,046,000

SOURCE: Bureau of Mines, *Minerals Yearbook--Metals, Minerals, and Fuels*, 1947 through 1975 (Washington, D.C.: annually), Natural Gas Section, Table 16 (1975); American Petroleum Institute, special release; and U.S. Department of Energy, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves* (annual).

a. Free gas not in contact with crude oil in the reservoir.

b. Associated gas is free gas in contact with crude oil in the reservoir; dissolved gas is gas in solution with crude oil in the reservoir.

c. Gas held in underground reservoirs for storage purposes only.

d. The U.S. Department of Energy now is solely responsible for estimating reserves. Their 1979 figures differ from those of the American Petroleum Institute. There is a large sampling error (20 percent) associated with the DOE estimates for Michigan.

n.a.: not available.

TABLE XIX-2. ENERGY CONSUMPTION BY ENERGY TYPE, MEASURED IN TRILLIONS OF BRITISH THERMAL UNITS, IN MICHIGAN FOR SELECTED YEARS: 1960-1983

Type	1960	1965	1970	1975	1980	1981	1982	1983
Coal	671.0	851.6	858.6	758.9	738.5	736.9	694.1	697.6
Natural gas (dry)	383.0	573.6	834.2	902.2	886.2	821.1	767.7	718.0
Petroleum, total	736.7	809.8	983.3	1,101.6	937.1	840.6	760.2	676.8
Asphalt	18.7	13.7	24.8	25.5	23.1	15.1	13.0	18.2
Aviation gasoline	6.4	8.0	2.8	1.7	2.3	1.4	0.8	1.5
Distillate fuel	176.2	176.4	222.2	245.6	161.0	155.1	133.6	131.8
Jet fuel	18.4	24.1	41.1	32.3	37.1	34.3	31.8	32.9
Kerosene	23.1	33.3	17.7	7.6	7.0	5.6	4.2	3.5
LPG	11.3	14.9	23.4	27.8	24.7	23.4	25.7	25.8
Lubricants	15.1	18.3	19.1	16.7	19.9	19.0	17.4	18.2
Motor gasoline	345.6	410.0	508.7	568.7	509.7	487.4	463.2	381.0
Residual fuel	74.8	54.0	63.2	115.0	83.6	49.2	30.7	21.0
Road oil	0.8	1.3	0.9	0.3	0.2	0.1	0.1	(a)
Other petroleum	46.3	55.6	59.3	60.4	68.6	50.1	39.7	43.0
Nuclear power	0.0	2.1	4.1	79.0	173.3	186.2	165.3	181.4
Hydroelectric power	35.3	14.6	13.7	14.9	71.5	58.3	35.1	26.1
Geothermal power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood and waste	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net interstate sales of electricity	31.9	39.3	42.7	5.9	-52.3	-54.0	12.6	41.2
Total energy consumed	1,857.9	2,291.1	2,736.6	2,862.5	2,754.3	2,589.0	2,435.0	2,341.0

SOURCE: Energy Information Administration, U.S. Department of Energy, Michigan Energy Data, (Washington, D.C.: June 1983), and State Energy Data Report, (Washington, D.C.: May 1985).

a. Included in asphalt total in 1983.

TABLE XIX-9. MICHIGAN CONSUMPTION OF REFINED PETROLEUM PRODUCTS: 1962-1983

(In thousands of barrels)

Year	Asphalt	Aviation gasoline	Distillate	Jet fuel	Kerosene	LPG	Lubricants	Gasoline	Residual	Road oil	All other petroleum	Total refined petroleum products
1962	2,672	1,616	31,272	4,155	6,985	2,984	2,462	67,332	9,231	178	7,892	136,778
1963	2,450	1,646	30,436	4,193	6,145	3,733	2,461	71,299	9,753	165	8,719	140,999
1964	2,013	1,698	29,690	4,477	6,033	3,418	2,584	73,654	8,872	80	8,832	141,352
1965	2,062	1,833	30,642	4,411	5,880	3,621	3,025	77,319	8,191	202	9,141	146,326
1966	3,075	2,057	31,663	5,161	4,604	4,316	3,142	82,423	7,802	63	9,324	153,630
1967	3,086	2,234	36,878	6,240	2,880	5,334	2,554	84,448	5,520	73	8,975	158,222
1968	3,507	2,773	36,661	7,465	2,922	5,596	2,806	90,801	5,656	86	9,206	167,479
1969	3,132	2,821	37,471	7,836	2,789	6,487	3,099	95,369	6,698	125	9,708	175,536
1970	3,741	658	38,106	7,396	3,124	6,058	3,157	96,833	10,059	139	9,476	178,748
1971	3,707	380	41,684	7,228	3,018	6,606	2,785	99,548	11,605	59	9,148	185,768
1972	4,522	501	48,451	6,936	2,645	7,818	2,982	105,198	11,388	115	9,911	200,467
1973	5,237	554	46,994	6,987	1,995	7,906	3,676	110,100	14,560	130	10,185	208,324
1974	4,793	302	44,080	6,488	1,600	7,665	3,521	107,057	14,876	78	9,701	200,161
1975	3,835	369	41,671	5,823	1,349	7,316	2,751	108,256	18,739	50	9,368	199,528
1976	3,466	396	43,789	5,853	1,551	8,585	3,056	113,506	20,656	21	11,314	212,191
1977	4,111	447	44,798	6,411	1,421	8,626	3,272	114,812	21,345	31	12,866	218,139
1978	4,330	467	45,442	6,916	1,360	8,878	3,513	117,526	24,871	45	13,075	226,425
1979	4,152	395	31,642	7,159	1,535	7,515	3,676	108,261	19,046	11	10,781	192,859
1980	3,483	448	27,643	6,646	1,233	6,736	3,274	97,025	13,289	25	10,844	170,645
1981	2,270	268	26,630	6,131	992	5,572	3,140	92,783	7,825	14	7,915	153,077
1982	1,956	157	22,943	5,706	743	7,107	2,863	88,179	4,891	9	6,241	140,796
1983	2,739	292	22,621	5,892	623	7,150	2,998	72,522	3,344	(a)	6,488	124,668

SOURCE: Michigan Department of Commerce, Energy Information Administration, Michigan Energy Data Report, 1960 through 1980, July 1982; and Michigan Energy Data, Energy Information Administration, U.S. Department of Energy (Washington, D.C.), 1985.

a. Included in the asphalt total in 1983.

TABLE XIX-14. ESTIMATED PROVED RESERVES OF NATURAL GAS LIQUIDS AND CRUDE OIL IN MICHIGAN AND THE UNITED STATES: 31 DECEMBER 1961-1983

	Natural gas liquids[a] (thousand barrels)				Crude oil (million barrels)	
	Michigan			United States total		
Year	Nonassociated with oil	Associated-dissolved[b]	Total		Michigan	United States
1961	695	3,621	4,316	7,049,096	79	31,759
1962	2,001	3,423	5,424	7,311,517	75	31,389
1963	2,048	3,278	5,326	7,673,978	69	30,970
1964	969	4,892	5,861	7,746,632	58	30,991
1965	1,565	3,351	4,916	8,023,534	53	31,352
1966	984	3,057	4,041	8,328,966	71	31,452
1967	1,461	2,083	3,544	8,614,231	63	31,377
1968	1,429	2,163	3,592	8,598,108	55	30,707
1969	1,375	2,681	4,056	8,143,174	52	29,632
1970	5,437	4,466	9,903	7,702,941	46	39,001[c]
1971	4,616	7,968	12,584	7,304,227	59	38,063[c]
1972	5,531	13,495	19,026	6,786,559	--	36,339[c]
1973	7,507	17,539	25,046	6,454,707	72	35,300[c]
1974	4,906	15,358	20,264	6,350,449	82	34,250
1975	3,984	16,649	20,633	6,267,830	93	32,682
1976	5,081	17,316	22,397	6,401,967	139	30,942
1977	11,183	34,015	45,198	5,994,365	133	29,486
1978	20,857	44,836	65,693	5,925,852	190	27,804
1979	28,245	43,281	71,526	5,655,323	176	27,051
1979[d]	n.a.	n.a.	112,000	6,615,000	159	28,810
1980[d]	n.a.	n.a.	112,000	6,728,000	205	29,805
1981[d]	n.a.	n.a.	102,000	7,068,000	240	29,426
1982[d]	n.a.	n.a.	97,000	7,221,000	184	27,858
1983[d]	n.a.	n.a.	105,000	7,901,000	209	27,735

SOURCE: Bureau of Mines, Minerals Yearbook--Metals, Minerals, and Fuels, 1960 through 1974 (Washington, D.C.: annually), Natural Gas Liquids section, Table 9, and Crude Petroleum and Products section, Table 13 (1975 data); American Petroleum Institute, special release; and U.S. Department of Energy, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves (annual).

a. Natural gasoline, LP gases, and condensate.

b. Associated natural gas liquids are in contact with crude oil in the reservoir; dissolved natural gas liquids are in solution with crude oil in the reservoir.

c. Includes reserves in the Prudhoe Bay Permo-Triassic reservoir, discovered in 1968 and not included prior to 1970.

d. The U.S. Department of Energy now is solely responsible for estimating reserves. Their 1979 figures differ from those of the American Petroleum Institute. There is a large sampling error (20 percent) associated with the DOE estimates for Michigan.

n.a.: Not available.

TABLE XIX-16. OIL AND NATURAL GAS PRODUCTION IN MICHIGAN, BY COUNTY: 1982

County	Oil (barrels)	Natural gas (000 cubic feet)	County	Oil (barrels)	Natural gas (000 cubic feet)
Allegan	114,908	11,422	Livingston	1,177	284,460
Antrim	91,873	311,582	Macomb	6,185	4,221,680
Arenac	168,754	0	Manistee	6,966,356	41,892,896
Barry	7,172	0	Mason	157,054	1,209,293
Bay	281,312	0	Mecosta	17,382	5,710
Benzie	181,986	191,100	Midland	172,419	0
Berrien	638	0	Missaukee	1,051,199	2,208,182
Calhoun	943,647	2,033,437	Monroe	5,211	0
Cass	80,673	0	Montcalm	95,475	0
Cheboygan	858	0	Muskegon	9,313	0
Clare	431,351	456,873	Newaygo	32,923	0
Crawford	1,483,947	2,696,092	Oakland	197,541	1,575,624
Eaton	620,081	3,969,646	Oceana	19,119	0
Grand Traverse	3,558,310	27,869,369	Ogemaw	551,131	58,645
Genesee	19,924	58,483	Osceola	68,037	4,318
Gladwin	289,975	0	Oscoda	3,696	0
Gratiot	6,967	0	Otsego	6,133,240	12,293,598
Hillsdale	1,032,759	5,413,183	Ottawa	10,389	133,093
Huron	1,882	0	Presque Isle	23,789	0
Ingham	904,119	2,217,482	Roscommon	416,684	490,190
Isabella	262,112	0	Saginaw	40,761	0
Jackson	1,380	0	Shiawassee	6,309	0
Kalamazoo	1,128	0	St. Clair	388,221	1,381,143
Kalkaska	3,358,642	26,463,333	Tuscola	91,534	0
Kent	99,401	0	Van Buren	18,779	0
Lake	63,389	0	Washtenaw	706	0
Lapeer	331,385	1,883,658	Wayne	4,024	0
Lenawee	483	0	Wexford	507,731	2,856,292
			Total	31,335,441	142,190,784

SOURCE: Michigan Department of Natural Resources, Michigan's Oil and Gas Fields, 1982, Annual Statistical Summary 36 (Lansing: 1984), p. 5.

TABLE XIX-17. OIL PRODUCTION IN MICHIGAN, BY GEOLOGIC SYSTEM AND FORMATION: 1980, 1981, 1982 AND CUMULATIVE THROUGH 1982

	First year of production	Production (in barrels)			
		1980	1981	1982	Cumulative thru 1982
Mississippian					
Marshall	1338	925	1,068	1,418	87,615
Berea	1925	55,596	110,178	176,608	2,871,930
Devonian					
Traverse	1927	457,813	460,657	480,438	108,064,000
Dundee-Reed City	1927	1,506,950	1,273,415	1,495,947	345,505,595
Detroit River	1939	2,827,265	2,942,586	3,088,530	79,725,826
Silurian					
Salina-Niagaran	1952	27,697,663	26,596,115	25,022,687	240,776,116
Ordovician					
Trenton-Black River	1935	1,262,251	1,128,100	1,044,424	124,391,996
Prairie Du Chien	1960	--	--	139	7,981
Total barrels, all formations		33,808,463	32,512,119	31,310,191	901,431,059

SOURCE: Michigan Department of Natural Resources, Michigan's Oil and Gas Fields, 1980, 1981, and 1982, Annual Statistical Summary, (Lansing: annually), Table 30.

TABLE XIX-18. GAS PRODUCTION IN MICHIGAN, BY GEOLOGIC SYSTEM AND FORMATION: 1980, 1981, 1982, AND CUMULATIVE THROUGH 1982

	First year of production	Production (in thousands of cubic feet)			
		1980	1981	1982	Cumulative thru 1982
Mississippian					
Stray-Marshall	1931	21,313	8,228	10,028	213,696,391
Berea	1936	28,849	34,802	0	11,054,323
Devonian					
Antrim Shale	1947	375,883	355,809	313,722	3,011,072
Traverse	1934	620,738	644,611	501,058	10,814,696
Dundee-Reed City	1929	15,118	1,675	0	41,533,999
Detroit River	1946	1,885,846	2,051,953	3,733,987	82,672,132
Silurian					
Salina-Niagaran	1929	149,445,361	140,823,661	130,979,556	1,395,832,632
Ordovician					
Trenton-Black River	1954	5,944,814	5,678,680	5,413,183	224,481,295
Prairie Du Chien	1982	--	--	1,180,492	1,180,492
Total Mcf, All formations		158,337,922	149,599,419	142,132,026	1,984,285,052

SOURCE: Michigan Department of Natural Resources, Michigan's Oil and Gas Fields, 1980, 1981, and 1982, Annual Statistical Summary (Lansing: annually), Table 31.

TABLE XIX-19. MICHIGAN NATURAL GAS - STORAGE HISTORY, 1941-1983

As of year end	Storage fields activated	County	Incremental capacity (Bcf)	Total cyclic capacity (Bcf)
1941	Austin (MW)	Mecosta	13	13
1947	Reed City (MW)	Osceola & Lake	18	31
1947	Cranberry Lake (MGS)	Clare & Missaukee	13	44
1947	Winterfield (MGS)	Clare & Osceola	33.2	77.2
1948	Goodwell (MW)	Newaygo	19	96.2
1950	Lincoln-Freeman (MW)	Clare	21	117.2
1950	Winfield (MW)	Montcalm	12	129.2
1951	Orient (MW)	Clare & Osceola	6	135.2
1951	Norwich (MW)	Newaygo	5	140.2
1953	Taggert (MC)	Mecosta & Montcalm	54	194.2
1956	Coldwater (MW)	Isabella	8	202.2
1957	Croton (MW)	Newaygo	4	206.2
1958	New Haven (MC)	Gratiot & Montcalm	12	218.2
1960	North Hamilton (MW)	Clare	8	226.2
1960	Overisel (CP)	Allegan	24	250.2
1961	Ira (CP)	St. Clair	4	254.2
1961	Marysville (SM)	St. Clair	0.4	254.6
1962	Riverside (CP)	Missaukee	2.3	256.9
1962	Howell (P.E.)	Livingston	20	276.9
1963	Loreed (MW)	Osceola & Lake	45	321.9
1963	Salem (CP)	Allegan	10	331.9
1965	Belle River (MC)	St. Clair	44	375.9
1965	Lennox (CP)	Macomb	1.5	377.4
1966	Ray (CP)	Macomb	46	423.4
1968	Northville (CP)	Wayne & Washtenaw	11.8	435.2
1971	Partello (MGU)	Calhoun	2.0	437.2
1971	Puttygut (CP)	St. Clair	11	448.2
1972	Four Corners (CP)	St. Clair		
1972	Swan Creeks (CP)	St. Clair	2.8	451.0
1972	Columbus (MC)	St. Clair	18	469.0
1973	West Columbus (MC)	St. Clair	20	489.0
1974	Marysville (SM)	St. Clair	3.5	492.5
1975	Muttonsville (MW)	Macomb	14	506.5
1975	Anderson (MGU)	Calhoun	1	507.5
1975	Campbell (MGU)	Calhoun	1	508.5
1975	Calhoun County (BC)	Calhoun	0.2	525.6
1976	Hessen (CP)	St. Clair	13.6	522.1
1977	Marsac Creek (CP)	St. Clair	3.3	525.4
1978	Capac (MW)	St. Clair	30.0	555.6
1980	Cold Springs 12 (ANR)	Kalkaska	25.0	580.6

TABLE XIX-19. MICHIGAN NATURAL GAS - STORAGE HISTORY, 1941-1983 (cont.)

As of year end	Storage fields activated	County	Incremental capacity (Bcf)	Total cyclic capacity (Bcf)
1980	Rapid River 35 (ANR)	Kalkaska	15.0	595.6
1980	Chester 15 (MW)	Otsego	16.8	612.4
1981	Charlton 1 (MW)	Otsego	16.3	628.7
1981	Cold Springs 31 (ANR)	Kalkaska	4.9	633.6
1981	East Kalkaska 1 (ANR)	Kalkaska	1.0	634.6
1981	Excelsior 6 (ANR)	Kalkaska	4.9	639.5
1981	Collin Field (SM)	St. Clair	2.0	641.5

SOURCE: Michigan Public Service Commission as reported in Michigan Department of Commerce, Energy Administration, Michigan Energy Data Book (Lansing: 1983), pp. 44 and 45.

Key: MW = Michigan Wisconsin Pipeline Company
MC = Michigan Consolidated Gas Company
MGS = Michigan Gas Storage Company
MGU = Michigan Gas Utilities Company
CP = Consumers Power Company
SM = Southeastern Michigan Gas Company
P.E.= Panhandle Eastern Pipeline Company
BC = Battle Creek Gas Company
ANR = ANR Storage Company

TABLE XIX-20. CAPACITY OF OPERABLE PETROLEUM REFINERIES IN MICHIGAN AS OF JANUARY 1, 1985

	Crystal Refining Co., Carson City	Lakeside Refining Co., Kalamazoo	Marathon Petroleum Oil Co., Detroit	Total Petroleum Inc., Alma	Total
(Measured in barrels per stream day, except where noted)					
Crude capacity:					
Operating barrels per calendar day	3,000	5,000	68,500	40,000	116,500
Operating barrels per stream day	6,000	5,600	71,000	42,000	124,600
Charge capacity:					
Vacuum distillation	0	0	26,000	0	26,000
Catalytic cracking (fresh)	0	0	27,000	18,000	45,000
Catalytic cracking (recycle)	0	0	1,300	0	1,300
Catalytic reforming	0	0	17,000	14,000	31,000
Catalytic hydrotreating	0	0	17,500	19,200	36,700
Production capacity					
Alkylation			4,000	3,500	7,500
Asphalt			8,650		8,650

SOURCE: Energy Information Administration, U.S. Department of Energy, Petroleum Supply Annual 1984, (Washington, D.C.: June 1985), Vol. 1, Table 32.

TABLE XIX-21. DISTRIBUTION OF BITUMINOUS COAL AND LIGNITE FOR CONSUMPTION IN MICHIGAN, BY TYPE OF CUSTOMER: 1946 AND 1959-1984

(Thousand short tons)

Year	Electric utilities	Coke and gas plants	Retail dealers	All others	Total
1946	--	3,040[a]	8,460	13,709[b]	25,209
1959	10,675	4,489	2,892	9,175	27,231
1960	10,191	4,517	2,458	7,910	25,076
1961	9,997	4,121	2,514	7,695	24,327
1962	12,276	4,249	2,358	8,372	27,255
1963	13,582	4,813	2,154	9,339	29,888
1964	14,690	5,309	1,771	9,166	30,936
1965	16,966	5,338	2,032	9,075	33,411
1966	18,464	5,012	1,831	9,463	34,770
1967	19,605	4,591	1,485	9,278	34,959
1968	20,832	4,914	1,474	9,567	36,787
1969	21,432	4,823	1,166	8,253	35,674
1970	23,244	4,942	1,008	7,439	36,633
1971	19,416	4,861	817	7,531	32,625
1972	21,424	5,378	649	7,634	35,085
1973	20,294	4,876	561	5,954	31,685
1974	20,623	3,835	351	4,441	29,250
1975	21,802	5,343	262	3,883	31,290
1976	21,197	4,493	248	3,867	29,805
1977[c]	21,165	4,029	160	3,447	28,801
1978[c]	21,192	2,928	73	3,415	27,608
1979[c]	24,047	4,026	35	4,276	32,385
1980	23,003	3,339[d]	308[e]	4,554	31,206
1981	23,122	3,225[d]	182[e]	3,624	30,153
1982	20,961	2,820[d]	233[e]	3,529	27,544
1983	20,960	2,222[d]	165[e]	3,899	27,246
1984	23,339	1,588[d]	291[e]	4,151	29,369

SOURCE: Bureau of Mines, Minerals Yearbook--Metals, Minerals, and Fuels, 1947 through 1975 (Washington, D.C.: annually), Crude Petroleum and Products section, Tables 16 and 24 (1975 data); Bureau of Mines, special (1976-1979 data); thereafter, U.S. Department of Energy, Coal Distribution, (Washington, D.C.: annually), Table 4a.

a. By product and water gas plants.
b. Industrial; includes electric utilities.
c. Prior to the fourth quarter of 1977, data collection was on a voluntary basis, with some estimating by the Bureau of Mines. Reporting now is mandatory. Since the third quarter of 1977, only actual company figures are tallied to develop state and national totals. The data for 1977 and 1978 are not strictly comparable with each other, therefore, nor with previous years' figures.
d. Coke plants only.
e. Residential and commercial.

TABLE XIX-22. TYPICAL ELECTRIC RATES FOR RESIDENTIAL SERVICES IN MICHIGAN CITIES OF 10,000 OR MORE INHABITANTS: 1 JANUARY 1984

Community	250 kwh	500 kwh	750 kwh	1000 kwh	2500 kwh	Utility
Adrian	$14.00	$28.01	$39.66	$55.09	$135.33	Consumers Power Co.
Albion	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Allen Park	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Alpena	17.83	31.72	45.60	59.48	142.78	Alpena Power Co.
Ann Arbor	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Battle Creek	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Bay City	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Bay City[a]	13.80	27.60	39.98	55.02	136.25	Bay City City of
Benton Harbor	14.38	25.00	35.63	46.65	120.80	IN & MI Electric Co.
Berkley	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Beverly Hills	15.95	31.90	43.47	65.84	154.16	Detroit Eidson Co.
Big Rapids	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Birmingham	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Cadillac	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Clawson	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Dearborn	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Dearborn Hgts	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Detroit	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Drayton Plains	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
East Detroit	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
E. Grand Rapids	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
E. Lansing[a]	14.72	26.94	39.91	52.88	132.90	Lansing City of
E. Lansing[a]	14.72	26.94	39.91	52.88	135.20	Lansing City of
Ecorse	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Escanaba[a]	22.66	41.66	59.16	76.66	181.66	Escanaba City of
Farmington	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Farmington Hls	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Ferndale	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Flint	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Fraser	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Garden City	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Grand Haven[a]	18.80	34.76	51.92	69.09	181.82	Grand Haven City of
Grand Rapids	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Grandville	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Grosse Pte Frms	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.

TABLE XIX-22. TYPICAL ELECTRIC RATES FOR RESIDENTIAL SERVICES IN MICHIGAN CITIES OF 10,000 OR MORE INHABITANTS: 1 JANUARY 1984 (cont.)

Community	250 kwh	500 kwh	750 kwh	1000 kwh	2500 kwh	Utility
Grosse Pte Pk	$15.95	$31.90	$43.47	$65.84	$154.16	Detroit Edison Co.
Grosse Pte Wds	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Hamtramck	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Harper Wds	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Hazel Park	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Highland Park	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Holland	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Holland[a]	15.50	28.50	37.65	50.65	128.65	Holland City of
Holt	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Inkster	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Jackson	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Jenison	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Kalamazoo	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Kentwood	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Lakeview	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Lansing[a]	14.72	26.94	39.91	52.88	132.90	Lansing City of
Lansing[a]	14.72	26.94	39.91	52.88	132.90	Lansing City of
Lincoln Pk	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Livonia	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Madison Hgts	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Marquette[a]	23.23	41.56	59.89	78.22	164.20	Marquette City of
Melvindale	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Menominee	17.15	30.70	49.71	53.26	132.05	WI Pub Service Corp
Midland	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Monroe	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Mount Clemens	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Mount Pleasant	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Muskegon	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Muskegon Hgts	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Niles[a]	15.27	25.02	33.61	42.20	88.16	Niles City of
Norton Shores	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Novi	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Oak Park	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Owosso	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Pontiac	15.95	31.90	43.47	65.84	154.16	Consumers Power Co.

TABLE XIX-22. TYPICAL ELECTRIC RATES FOR RESIDENTIAL SERVICES IN MICHIGAN CITIES OF 10,000 OR MORE INHABITANTS: 1 JANUARY 1984 (cont.)

Community	250 kwh	500 kwh	750 kwh	1000 kwh	2500 kwh	Utility
Port Huron	$15.95	$31.90	$43.47	$65.84	$154.16	Detroit Edison Co.
Portage	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Redford Twp.	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
River Rouge	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Riverview	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Romulus	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Roseville	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Royal Oak	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Saginaw	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Sault Ste Marie	15.21	27.03	38.84	50.66	121.55	Edison Sault Elec
Southfield	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Southgate	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
St. Clair Shrs	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Sterling Hgts	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Taylor	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Traverse City	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Traverse City[a]	18.83	35.65	52.48	69.30	170.25	Traverse City City of
Trenton	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Troy	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Walker	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Warren	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Wayne	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Westland	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Woodhaven	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Wyandotte[a]	18.54	35.44	52.30	69.19	170.47	Wyandotte City of
Wyoming	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Ypsilanti	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.

SOURCE: U.S. Department of Energy, Energy Information Administration, Typical Electric Bills: January, 1984 (Washington, D.C.: 1984), Table 11.

[a] Community served by publicly-owned utility.

TABLE XIX-23. INSTALLED ELECTRIC GENERATING CAPACITY OF ELECTRIC UTILITIES AND INDUSTRIAL PLANTS IN MICHIGAN, BY TYPE OF PRIME MOVER: 31 DECEMBER 1967-1983

(In thousands of kilowatts)

	Electric utilities				
Year	Fossil steam	Hydro	Industrial plants	Nuclear power*	Total
1967	8,930	356	1,057	n.a.	10,343
1968	9,766	356	1,050	n.a.	11,173
1969	10,480	351	1,032	n.a.	11,862
1970	10,830	348	994	n.a.	12,171
1971	11,842	345	1,014	n.a.	13,201
1972	12,562	344	1,007	n.a.	13,913
1973	13,969	1,993[a]	1,023	n.a.	16,985
1974	16,605	2,322[a]	1,019	n.a.	19,946
1975	16,629	2,321[a]	1,009	n.a.	19,959
1976	13,281	2,321[a]	1,394	2,039	19,035
1977	13,867	2,322[a]	1,399	2,039	19,626
1978	14,104	2,322[a]	1,410	3,172	21,007
1979	14,994	2,322[a]	1,428	3,172	21,916
1980	15,764	2,322[a]	1,435	3,172	22,692
1981	15,700	2,322	1,452	3,172	22,647
1982	15,557	2,322	1,490	3,172	22,541
1983	15,670	2,322	1,463	3,172	22,628

SOURCE: Bureau of the Census, Statistical Abstract of the United States, 1967 through 1975 (Washington, D.C.: annually); thereafter U.S. Department of Energy, Electrical Power Annual (Washington, D.C.: annually), Table 6.

[a] Includes the pump storage facility at Ludington where water is pumped up into a reservoir at night and released to generate electricity to meet peak loan requirements during the day.

* Data not available prior to 1976.

TABLE XIX-15. PRODUCTION AND DISPOSITION OF NATURAL GAS IN MICHIGAN AND INTERSTATE NATURAL GAS MOVEMENTS TO AND FROM MICHIGAN: 1964-1983

(Millions of cubic feet)

	Production		Disposition			Average wellhead value	Interstate movements	
Year	From gas wells	From oil wells	Used for repressuring	Vented and flared	Marketed production	(cents per mcf)	Deliveries to Canada	Receipts from other states
1964	21,100	12,600	1,608	704	31,388	25.4	0	493,665
1965	24,700	12,200	1,900	442	34,558	25.1	0	547,370
1966	26,868	16,121	8,353	516	34,120	25.2	20,174	653,316
1967	22,709	20,383	7,642	1,861	33,589	24.7	40,418	698,475
1968	24,151	19,779	2,330	1,120	40,480	25.1	68,045	742,934
1969	22,285	16,405	1,719	808	36,163	25.7	29,770	776,010
1970	23,774	16,264	378	809	38,851	26.7	10,643	791,773
1971	10,968	15,482	788	0	25,662	26.4	14,236	839,385
1972	13,523	21,730	0	1,032	34,221	30.7	15,426	823,515
1973	23,272	22,424	0	1,117	44,579	39.2	14,736	925,952
1974	45,745	24,719	63	1,268	69,133	50.4	13,232	869,059
1975	71,907	31,994	176	1,612	102,113	63.4	10,153	826,505
1976	81,628	40,003	327	2,042	119,262	89.5	7,461	742,482
1977	86,037	47,189	981	2,291	129,954	101.0	0	664,617
1978	97,866	54,318	1,401	2,736	148,047	119.7	0	664,144
1979	102,048	62,812	2,169	2,960	159,731	174.0	393	805,953
1980	89,651	74,459	2,375	3,433	158,302	235.5	257,647	862,303
1981	93,198	65,095	2,390	3,310	152,593	286.0	283,347	728,736
1982	95,461	63,310	2,400	3,320	144,468	319.0	251,634	829,747
1983	74,486	70,088	2,340	3,324	138,910	358.0	218,264	632,937

SOURCE: Bureau of Mines, Minerals Yearbook--Metals, Minerals, and Fuels, 1964 through 1975 (Washington, D.C.: annually), Natural Gas Section, Table 16 (1975); and Bureau of Mines, special release (1976, 1977 and 1978 data); U.S. Department of Energy, Natural Gas Production and Consumption 1979, (Washington, D.C.: annually) January 1981; U.S. Department of Energy, Natural Gas Annual, 1980, and Michigan Department of Natural Resources, special release.

TABLE XIX-25. ENERGY CONSUMPTION BY END-USE SECTOR, MEASURED IN TRILLION OF BRITISH THERMAL UNITS, IN MICHIGAN FOR SELECTED YEARS: 1960-1982

	1960	1965	1970	1975	1980	1981	1982
Residential							
Fossil fuels	344.4	407.9	488.2	479.6	465.9	431.0	422.2
Electricity	104.1	130.7	200.0	243.2	260.6	248.5	247.0
Commercial							
Fossil fuels	116.1	149.2	183.8	225.0	226.2	203.8	199.5
Electricity	74.9	103.8	150.9	169.3	195.5	193.2	193.5
Industrial							
Fossil fuels	656.7	785.1	790.7	735.0	623.6	552.8	484.8
Electricity	151.2	225.2	295.6	337.4	360.1	357.4	321.6
Transportation							
Fossil fuels	387.2	462.4	593.0	660.8	620.0	599.4	565.4
Electricity	1.3	1.6	1.3	0.7	0.8	1.0	1.0
Electric utilities energy input							
Fossil fuels	264.3	405.3	587.3	650.8	624.3	607.3	550.1
Hydropower, nuclear, geothermal	33.0	15.2	16.5	92.7	243.6	246.4	199.1
Net interstate sales of electricity	31.9	39.3	42.7	5.9	-52.3	-54.9	12.6
Electricity available for distribution to four major sectors							
Electricity sales	94.2	135.7	188.7	219.6	237.8	236.1	223.9
Associated losses	235.0	324.1	457.9	529.9	578.0	562.7	537.9
Total energy consumed[a]	1,836.0	2,266.1	2,703.5	2,851.1	2,752.6	2,587.0	2,435.0

SOURCE: Energy Information Administration, U.S. Department of Energy, *State Energy Data Report*, (Washington, D.C.: May 1984).

a. Totals may not equal sum of components due to independent rounding.

TABLE XIX-24. GENERATION OF ELECTRIC ENERGY BY ELECTRIC UTILITIES BY KIND OF FUEL: 1962-1983

(Thousands of kilowatt-hours)

Year	Coal-fired steam units	Petroleum-fired steam units[a]	Gas-fired steam units	Nuclear powered units	Hydroelectric powered units	All fuel units[b]
1962	30,019,132	241,356	240,482	29	1,574,044	32,075,043
1963	33,171,041	224,283	187,504	122,351	1,246,431	34,951,610
1964	35,980,122	186,144	222,085	192,478	1,415,103	37,995,932
1965	39,472,433	194,419	262,017	180,607	1,667,243	41,776,719
1966	42,880,297	305,813	232,561	342,659	1,670,859	45,432,189
1967	44,495,793	460,034	375,330	502,013	1,799,231	47,632,901
1968	48,938,596	480,930	517,470	425,601	1,739,363	52,101,960
1969	51,346,646	603,897	1,200,274	401,050	1,732,982	55,284,849
1970	46,578,776	2,553,271	5,193,659	374,692	1,580,343	56,280,741
1971	47,187,538	4,277,233	5,607,036	387,520	1,620,622	59,079,949
1972	47,953,045	4,716,918	4,659,418	2,125,181	1,643,545	61,098,107
1973	48,752,756	6,326,295	3,767,128	2,979,877	889,714	62,715,770
1974	48,393,892	7,433,244	4,158,308	415,840	1,050,699	61,451,983
1975	48,180,133	8,336,771	3,475,317	7,176,123	989,369	68,157,713
1976	46,813,611	7,752,445	1,660,529	9,900,551	926,133	69,252,984
1977	47,624,077	7,635,801	715,910	10,231,444	804,363	68,757,517
1978	47,613,638	10,363,304	714,744	13,104,159	949,912	74,534,339
1979	51,363,534	8,110,368	1,203,678	15,139,195	1,184,940	78,229,558
1980	50,450,279	5,438,411	954,712	15,890,986	1,083,328	74,849,550
1981	53,182,672	3,028,311	648,083	17,066,081	1,123,665	75,594,999
1982	50,488,101	1,257,419	449,577	15,002,636	1,094,005	68,703,126
1983	51,016,000	639,000	618,000	16,383,000	1,113,000	70,863,000

SOURCE: Federal Power Commission, special release; and U.S. Department of Energy, Electric Power Annual, (Washington, D.C.: annually), Table 12.

a. Includes distillate and residual and crude burned as residual, until 1975.

b. Includes generation of electricity by coal-fired steam units, petroleum-fired steam units, gas-fired steam units, nuclear-powered plants, fossil-fired steam units, petroleum combustion turbine/internal combustion units, gas combustion turbine/internal combustion units, combustion turbine/internal combustion units, and geothermal/wood/wind/waste units.

TABLE XIX-26. FOSSIL FUELS CONSUMED IN THE GENERATION OF ELECTRIC ENERGY BY ELECTRIC UTILITIES IN MICHIGAN, BY KIND OF FUEL: 1962-1983

Year	Coal-fired steam units[a]	Petroleum-fired steam units[b]	Gas-fired steam units[c]	Petroleum combustion turbine/internal combustion units[d]	Gas combustion turbine/internal combustion units[e]	All petroleum units[f]	All gas units[g]
1962	12,003,368	451,740	2,601,428				
1963	13,267,743	423,334	2,032,471				
1964	14,441,995	369,453	2,384,103				
1965	16,122,593	383,828	2,988,767				
1966	18,148,464	733,126	2,494,984				
1967	19,014,993	1,136,946	4,718,078				
1968	20,820,484	1,175,483	6,842,091				
1969	21,952,162	1,436,248	15,495,248				
1970	20,123,939	5,479,030	64,406,787				
1971	20,507,741	8,746,639	69,808,590				
1972	20,420,769	9,641,758	58,899,385				
1973	20,507,873	12,040,590	48,016,628				
1974	20,755,361	13,713,367	56,172,035				
1975	20,913,429	15,674,055	56,710,314				
1976	20,369,131	15,889,145	53,510,229				
1977	21,027,858	15,758,064	32,151,432				
1978	21,494,695	20,423,409	36,383,647				
1979	23,133,536	15,609,570	37,859,808	521,000	13,540,000	15,610,000	37,860,000
1980	22,150,263	10,400,333	26,368,103	275,000	11,674,000	10,400,000	26,368,000
1981	23,407,388	6,031,144	19,230,256	146,000	6,462,000	6,031,000	19,230,000
1982	21,805,840	2,437,485	7,978,506	87,000	4,748,000	2,524,000	12,727,000
1983	22,872,000	1,320,000	11,126,000	77,000	1,492,000	1,397,000	12,616,000

SOURCE: Federal Power Commission, special release; and U.S. Department of Energy, Electric Power Annual. (Washington, D.C.: annually), Table 20.

a. Short tons.
b. Barrels of 42 gallons. Included distillate and residual and crude burned as residual.
c. Thousands of cubic feet.
d. Barrels of 42 gallons.
e. Thousands of cubic feet.
f. Measured in barrels.
g. Measured in thousand cubic feet.

TABLE XIX-27. SALES OF ELECTRIC ENERGY TO INDUSTRIAL CONSUMERS IN MICHIGAN AND THE UNITED STATES, BY MONTH: 1975-1984

(Millions of killowatt-hours)

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1975	2,184	2,272	2,208	2,196	2,305	2,379	2,395	2,570	2,622	2,637	2,560	2,472
1976	2,498	2,641	2,750	2,784	2,748	2,881	2,847	2,827	2,883	2,768	2,827	2,745
1977	2,622	2,760	2,846	2,814	2,956	3,002	2,869	3,020	3,002	2,761	2,930	2,761
1978	2,756	2,754	2,773	2,966	2,970	3,063	2,971	3,094	3,118	3,190	3,055	2,899
1979	3,031	2,995	3,162	2,903	3,073	3,115	2,987	2,900	2,880	2,868	2,712	2,516
1980	2,544	2,693	2,713	2,605	2,277	2,242	2,414	2,520	2,598	2,762	2,645	2,643
1981	2,355	2,621	2,704	2,644	2,648	2,800	2,729	2,721	2,576	2,493	2,444	2,131
1982	2,104	2,170	2,445	2,348	2,415	2,468	2,490	2,446	2,333	2,251	2,099	2,031
1983	2,029	2,344	2,500	2,384	2,485	2,605	2,624	2,611	2,688	2,648	2,700	2,487
1984	2,477	2,713	2,767	2,693	2,745	2,754	2,886	2,889	2,709	2,790	2,594	2,540
						United States						
1975	54,280	54,328	54,437	52,526	54,767	55,841	55,525	57,868	58,619	58,815	58,223	57,433
1976	57,463	58,228	60,516	59,967	61,271	62,920	62,657	64,184	64,653	64,208	63,106	62,842
1977	61,481	60,439	63,294	63,278	65,418	66,064	64,622	66,300	66,362	66,295	64,833	63,906
1978	64,300	60,817	61,524	63,129	66,746	69,098	67,397	69,402	70,067	71,259	69,702	67,767
1979	67,956	66,847	68,770	68,777	70,421	70,968	69,938	71,058	70,075	71,444	69,787	67,283
1980	67,532	68,508	69,058	67,908	67,325	66,739	65,531	67,377	69,570	69,413	67,613	68,517
1981	67,076	67,411	68,590	68,138	68,714	71,641	71,712	72,010	71,011	69,154	66,139	64,130
1982	62,939	62,778	64,496	62,723	62,480	63,684	62,617	63,306	59,980	60,830	60,651	58,464
1983	57,938	59,032	60,261	60,548	62,729	66,152	66,424	69,611	69,618	68,924	67,544	67,217
1984	66,743	66,604	69,687	69,049	70,774	73,014	71,843	74,354	71,275	70,945	70,725	66,607

SOURCE: Energy Information Administration, U.S. Department of Energy, Energy Data Report (Washington, D.C.: monthly). After October 1981, Electric Power Monthly (Washington, D.C.: monthly).

TABLE XIX-28. SALES OF ELECTRIC ENERGY TO RESIDENTIAL CONSUMERS IN MICHIGAN AND THE UNITED STATES, BY MONTH: 1975-1984

(Millions of killowatt-hours)

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1975	2,056	1,739	1,797	1,741	1,512	1,559	1,796	1,863	1,719	1,608	1,562	1,901
1976	2,225	1,801	1,827	1,612	1,578	1,636	1,767	1,792	1,666	1,618	1,700	2,100
1977	2,329	1,886	1,856	1,631	1,574	1,632	1,814	1,905	1,721	1,240	1,630	2,058
1978	2,296	1,874	1,908	1,708	1,602	1,657	1,740	1,828	1,821	1,758	1,702	1,964
1979	2,326	1,932	1,924	1,710	1,644	1,644	1,769	1,883	1,735	1,624	1,726	1,969
1980	2,239	1,847	1,946	1,782	1,609	1,596	1,858	2,030	1,940	1,726	1,745	2,008
1981	2,350	1,762	1,815	1,630	1,596	1,594	1,925	1,967	1,728	1,651	1,634	1,978
1982	2,308	1,879	1,813	1,709	1,510	1,563	1,829	1,836	1,647	1,592	1,635	1,956
1983	2,165	1,689	1,725	1,716	1,563	1,634	1,948	2,155	1,869	1,678	1,672	2,082
1984	2,321	1,820	1,834	1,673	1,606	1,651	1,848	1,973	1,775	1,646	1,726	2,009
						United States						
1975	55,546	50,219	47,968	46,883	41,077	45,766	53,972	57,291	54,362	43,024	42,054	50,213
1976	60,126	54,264	47,060	43,563	41,036	44,157	53,671	57,255	53,460	44,762	46,675	56,750
1977	65,332	61,424	50,859	44,414	41,568	48,419	60,969	62,821	57,248	48,741	44,959	54,919
1978	65,547	63,936	58,194	46,928	43,637	50,511	61,327	63,434	61,584	51,108	47,220	57,058
1979	69,912	67,470	58,806	49,647	45,378	49,109	58,064	64,168	59,251	49,430	49,480	58,437
1980	65,841	64,514	60,497	51,749	45,699	52,267	68,611	74,893	67,969	54,014	50,539	60,775
1981	74,087	66,359	57,660	50,914	48,348	56,165	68,990	70,299	60,173	51,989	50,754	60,826
1982	76,264	69,128	60,498	54,918	49,092	54,083	65,704	69,906	63,053	52,638	52,136	62,102
1983	69,967	65,039	58,912	56,284	49,669	54,138	69,965	78,374	73,197	55,374	53,704	66,326
1984	83,300	69,776	63,719	56,373	53,519	59,933	71,020	73,138	67,456	55,965	58,660	66,915

SOURCE: Energy Information Administration, U.S. Department of Energy, Energy Data Report (Washington, D.C.: monthly); and after October 1981, Electric Power Monthly (Washington, D.C.: monthly).

TABLE XIX-29. SALES OF ELECTRIC ENERGY TO COMMERCIAL CONSUMERS IN MICHIGAN AND THE UNITED STATES, BY MONTH: 1975-1984

(Millions of killowatt-hours)

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1975	1,161	1,033	1,075	1,044	998	1,108	1,220	1,231	1,098	1,069	1,050	1,130
1976	1,208	1,079	1,105	1,046	1,076	1,130	1,264	1,210	1,207	1,113	1,086	1,252
1977	1,313	1,124	1,167	1,087	1,142	1,203	1,282	1,303	1,188	743	1,101	1,248
1978	1,300	1,147	1,176	1,098	1,084	1,217	1,249	1,338	1,290	1,215	1,138	1,243
1979	1,370	1,206	1,269	1,165	1,179	1,253	1,293	1,352	1,223	1,227	1,178	1,271
1980	1,343	1,214	1,282	1,213	1,159	1,202	1,324	1,425	1,293	1,237	1,184	1,282
1981	1,346	1,125	1,212	1,118	1,123	1,205	1,384	1,378	1,290	1,161	1,153	1,282
1982	1,308	1,170	1,202	1,139	1,121	1,182	1,291	1,315	1,203	1,159	1,121	1,232
1983	1,295	1,110	1,198	1,134	1,115	1,210	1,413	1,480	1,323	1,233	1,158	1,309
1984	1,372	1,231	1,261	1,188	1,201	1,282	1,411	1,509	1,341	1,281	1,228	1,327
						United States						
1975	33,026	31,459	31,194	31,335	30,926	34,665	37,631	38,576	37,325	32,817	31,608	32,596
1976	34,955	33,583	32,273	31,813	32,347	35,130	39,026	39,517	38,503	34,388	33,372	35,579
1977	37,598	36,105	34,249	33,180	34,291	37,658	41,863	42,483	41,062	36,655	34,075	35,714
1978	37,942	37,286	36,201	33,484	33,896	38,624	42,839	43,694	42,935	38,354	35,864	37,650
1979	40,200	39,670	37,938	35,731	36,259	39,174	42,528	43,915	42,416	38,750	36,656	37,952
1980	39,578	39,528	38,762	36,453	36,110	40,129	45,525	47,679	46,028	40,479	37,954	39,846
1981	43,229	41,345	39,541	37,910	39,331	44,244	48,989	49,003	45,877	42,183	38,746	40,782
1982	44,947	43,459	41,710	40,036	40,021	44,206	48,211	49,720	48,068	60,830	40,572	42,584
1983	44,019	42,475	41,518	40,679	40,305	45,086	51,013	53,245	52,147	45,517	42,666	45,119
1984	49,216	45,840	45,251	43,052	44,150	49,410	53,922	53,603	52,854	48,061	46,810	46,485

SOURCE: Energy Information Administration, U.S. Department of Energy, Energy Data Report (Washington, D.C.: monthly). After October 1981, Electric Power Monthly (Washington, D.C.: monthly).

TABLE XIX-30. SALES OF ELECTRIC ENERGY TO ALL CONSUMERS IN MICHIGAN AND THE UNITED STATES BY MONTH: 1975-1984

(Millions of kilowatt-hours)

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1975	5,613	5,152	5,188	5,189	4,914	5,145	5,521	5,780	5,550	5,432	5,291	5,634
1976	6,072	5,643	5,799	5,563	5,509	5,761	5,993	5,954	5,881	5,614	5,733	6,227
1977	6,400	5,892	5,992	5,647	5,780	5,955	6,089	6,352	6,040	4,799	5,791	6,224
1978	6,492	5,903	5,983	5,892	5,771	6,052	6,084	6,393	6,364	6,293	6,024	6,252
1979	6,878	6,266	6,490	5,904	6,019	6,156	6,181	6,267	5,974	5,856	5,752	5,898
1980	6,278	5,886	6,079	5,737	5,165	5,156	5,719	6,105	5,900	5,860	5,714	6,082
1981	6,256	5,689	5,921	5,575	5,536	5,774	6,169	6,234	5,736	5,498	5,369	5,536
1982	5,927	5,415	5,656	5,389	5,223	5,392	5,800	5,793	5,379	5,195	5,046	5,420
1983	5,683	5,319	5,607	5,400	5,327	5,615	6,221	6,478	6,082	5,746	5,721	6,076
1984	6,373	5,946	6,044	5,723	5,715	5,852	6,328	6,559	6,009	5,903	5,738	6,076
						United States						
1975	148,097	141,550	139,237	135,481	132,174	141,657	152,771	159,444	156,284	140,400	137,861	146,149
1976	158,903	151,949	145,839	140,728	140,123	147,550	161,224	166,792	162,750	148,778	148,758	160,798
1977	170,685	163,738	154,560	146,297	146,890	157,741	173,384	176,896	170,619	157,673	149,754	160,606
1978	174,372	168,291	161,950	148,883	149,914	163,981	177,607	182,666	181,015	166,722	159,125	168,709
1979	184,757	180,719	171,515	159,743	157,688	165,256	176,495	185,519	178,220	165,721	162,096	169,815
1980	179,585	178,720	174,373	161,703	154,851	164,872	185,882	196,205	190,139	170,080	162,174	175,607
1981	91,949	182,207	172,826	163,525	163,173	178,827	197,814	198,459	183,620	171,350	162,129	172,375
1982	192,079	182,805	173,959	164,512	158,569	168,739	183,567	189,740	178,296	163,416	160,479	170,278
1983	179,176	173,465	167,584	163,807	158,919	171,604	194,153	208,115	201,922	176,307	170,474	185,428
1984	206,548	188,857	185,563	174,927	175,003	189,071	203,791	208,364	198,365	181,702	183,203	186,917

SOURCE: Energy Information Administration, U.S. Department of Energy, Energy Data Report (Washington, D.C.: monthly). After October 1981, Electric Power Monthly (Washington, D.C.: monthly).

TABLE XIX-31. TYPE OF FUEL USED IN HOUSEHOLDS IN MICHIGAN AND THE UNITED STATES: CENSUS 1980

Category	Michigan	United States
Occupied housing units	3,195,213	80,389,673
House heating fuel:		
Utility gas	2,430,003	42,657,625
Bottled, tank, or LP gas	125,609	4,534,825
Electricity	149,262	14,768,118
Fuel oil, kerosene, etc.	409,969	14,655,454
Coal or coke	6,224	504,172
Wood	66,732	2,575,560
Other fuel	6,046	152,643
No fuel used	1,368	541,276
Water heating fuel:		
Utility gas	2,228,874	42,148,105
Bottled, tank, or LP gas	137,482	3,990,045
Electricity	779,831	26,841,643
Fuel oil, kerosene, etc.	32,209	6,442,960
Other	8,934	348,189
No fuel used	7,883	618,731
Cooking fuel		
Utility gas	1,367,420	32,375,170
Bottled, tank, or LP gas	170,465	5,569,346
Electricity	1,647,393	41,905,579
Other	6,276	397,400
No fuel used	3,659	142,178

SOURCE: Bureau of the Census, *1930 Census of Housing, Detailed Housing Characteristics, Michigan*, Table 62, and *1980 Census of Housing, Detailed Housing Characteristics, United States Summary*, Table 82, (Washington, D.C.: 1983).

TABLE XIX-32. NUMBER OF NATURAL GAS DISTRIBUTION UTILITY CUSTOMERS IN MICHIGAN, BY CLASS OF SERVICE: 1969-1983

(In thousands)

Year	Residential	Commercial	Industrial	Other	Total
1969	1,810.3	153.7	9.9	(L)	1,973.9
1970	1,850.9	157.2	10.4	(L)	2,018.5
1971	1,907.0	161.5	10.0	(L)	2,079.2
1972	1,946.7	168.7	10.6	(L)	2,126.0
1973	1,984.4	174.6	10.9	(L)	2,169.9
1974	2,023.3	178.1	10.8	(L)	2,212.2
1975	2,048.7	175.4	10.4	(L)	2,234.5
1976	2,069.7	165.3	9.4	(L)	2,244.4
1977	2,100.7	159.3	9.0	(L)	2,269.1
1978	2,145.1	159.4	9.2	(L)	2,313.6
1979	2,206.3	158.0	9.4	(L)	2,373.7
1980	2,270.2	163.5	9.6	(L)	2,443.3
1981	2,311.2	163.5	9.7	(L)	2,484.4
1982	2,323.7	163.1	9.9	(L)	2,496.7
1983	2,329.9	163.9	9.8	0	2,503.7

SOURCE: American Gas Association, Gas Facts, (Arlington, Va.: annually).

(L): Less than 50 customers.

TABLE XIX-33. TOTAL GAS REVENUES OF NATURAL GAS DISTRIBUTION UTILITIES IN MICHIGAN, BY CLASS OF SERVICE: 1969-1983

(In millions of dollars)

Year	Residential	Commercial	Industrial	Other	Total
1969	328	104	156	3	591
1970	350	115	178	8	651
1971	362	129	205	7	703
1972	404	158	231	6	799
1973	394	169	245	5	813
1974	480	228	327	8	1,044
1975	550	303	404	12	1,269
1976	690	401	519	2	1,612
1977	784	423	530	8	1,746
1978	869	448	633	(L)	1,950
1979	1,023	488	725	(L)	2,236
1980	1,237	600	765	1	2,603
1981	1,391	662	869	(L)	2,921
1982	1,606	752	1,790	(L)	3,149
1983	1,873	859	905	(L)	3,637

SOURCE: American Gas Association, Gas Facts, (Arlington, Va.: annually).

(L): Less than $500,000.

TABLE XIX-37. GASOHOL CONSUMPTION IN MICHIGAN: 1980-1984

	1980	1981	1982	1983	1984
	(Millions of gallons)				
January	.5	3.6	7.7	27.1	36.7
February	1.2	3.6	6.9	24.8	45.9
March	.8	4.4	10.2	28.8	39.3
April	1.1	3.0	9.0	47.9	55.1
May	3.1	6.0	7.7	64.2	50.6
June	2.8	5.7	11.4	68.2	58.4
July	3.6	6.4	13.9	69.2	45.9
August	2.5	6.9	20.5	63.6	50.8
September	3.8	6.3	21.8	43.3	44.1
October	3.5	5.2	39.6	40.6	49.0
November	3.1	7.5	26.2	42.2	53.9
December	3.3	7.7	31.9	46.1	48.4
Annual total	29.3	66.3	206.7	566.0	578.1
Monthly average	2.4	5.5	17.2	47.2	48.2

SOURCE: Michigan Department of Treasury, Motor Fuels and Cigarette Tax Division.

TABLE XIX-34. INCOMES OF SELECTED PRIVATELY OWNED ELECTRIC UTILITIES IN MICHIGAN: 1982 AND 1983

	Alpena Power Company		Consumers Power Company		Detroit Edison Company		Edison Sault Electric Co.	
	1982	1983	1982	1983	1982	1983	1982	1983
	(In thousands of dollars)							
Total utility operating revenues	$16,739	$16,531	$2,668,690	$2,911,344	$2,121,184	$2,307,516	$14,757	$16,503
Less total utility operating expenses	15,047	15,528	2,268,259	2,461,671	1,715,235	1,828,931	12,675	14,363
Total utility operating income	1,691	1,003	400,431	449,673	405,949	478,584	2,082	2,140
Net other income and deductions	21	59	128,485	152,315	44,330	95,140	4	1
Less net interest charges	9,358	345	248,366	254,224	195,578	209,102	957	829
Income before extraordinary items	1,355	717	280,549	347,765	254,701	364,622	1,130	1,312
Net extraordinary items	0	0	0	0	0	0	0	0
Plus extraordinary items after taxes	0	0	0	0	0	0	0	0
Net income	1,355	717	280,549	347,765	254,701	364,622	1,130	1,312

	Michigan Power Company		Upper Peninsula Generating Company		Upper Peninsula Power Company	
	1982	1983	1982	1983	1982	1983
Total utility operating revenues	$124,977	$140,827	$91,900	$100,368	$50,692	$55,058
Less total utility operating expenses	119,824	135,261	67,254	77,818	43,606	47,815
Total utility operating income	5,153	5,566	24,646	22,550	7,086	7,243
Net other income and deductions	944	227	12	4	253	224
Less net interest charges	4,880	3,042	24,658	22,554	3,501	3,445
Income before extraordinary items	1,217	2,751	0	0	3,838	4,022
Net extraordinary items	0	0	0	0	0	0
Plus extraordinary items after taxes	0	0	0	0	0	0
Net income	1,217	2,751	0	0	3,838	4,022

SOURCE: Energy Information Administration, U.S. Department of Energy, Financial Statistics of Selected Electric Utilities, annual publication.

TABLE XIX-35. GENERATED AND RECEIVED ENERGY AND DISPOSITION OF ENERGY BY SELECTED PRIVATELY OWNED ELECTRIC UTILITIES IN MICHIGAN: 1982 AND 1983

	Year	Alpena Power Company	Consumers Power Company	Detroit Edison Company	Edison Sault Electric Company	Michigan Power Company	Upper Peninsula Generating Company	Upper Peninsula Power Company
				(Megawatts)				
Production of Electricity								
Generation[a]								
Steam	1982	--	14,090,236	32,480,060	--	--	1,656,608	102,472
	1983	--	16,200,691	31,507,267	--	--	1,984,468	94,880
Nuclear	1982	--	3,653,262	--	--	--	--	--
	1983	--	4,104,091	--	--	--	--	--
Hydro-conventional	1982	27,696	405,376	--	240,430	13,577	--	90,537
	1983	34,882	459,683	--	205,070	13,776	--	95,742
Hydro-pump storage	1982	--	1,324,553	1,272,612	--	--	--	--
	1983	--	1,421,960	1,366,195	--	--	--	--
Other	1982	--	43,999	59,636	1,178	--	--	2,394
	1983	--	14,032	23,900	804	--	--	379
(Less) Energy for pumping	1982	--	1,848,018	1,775,544	--	--	--	--
	1983	--	1,983,142	1,905,374	--	--	--	--
Total net generation	1982	27,696	17,669,408	32,036,764	241,608	13,577	1,656,608	195,403
	1983	34,882	20,217,315	30,991,988	205,874	13,776	1,984,468	191,001
Purchases	1982	281,640	834,070	21,380	254,427	691,650	--	420,051
	1983	264,141	923,103	77,016	271,402	736,909	--	452,665
Interchanges								
In (gross)	1982	--	9,518,719	6,592,244	--	--	--	140,000
	1983	--	9,000,411	8,588,084	--	--	--	155,525
Out (gross)	1982	--	1,304,972	4,082,911	--	--	--	7,649
	1983	--	2,176,818	2,391,135	--	--	--	10,876
Net	1982	--	8,213,747	2,509,333	--	--	--	132,351
	1983	--	6,823,593	6,196,949	--	--	--	144,649

TABLE XIX-35. GENERATED AND RECEIVED ENERGY AND DISPOSITION OF ENERGY BY SELECTED PRIVATELY OWNED ELECTRIC UTILITIES IN MICHIGAN: 1982 AND 1983 (cont.)

	Year	Alpena Power Company	Consumers Power Company	Detroit Edison Company	Edison Sault Electric Company	Michigan Power Company	Upper[a] Peninsula Generating Company	Upper Peninsula Power Company
				(Megawatts)				
Transmission for/by others (wheeling)								
Received	1982	--	--	719,869	--	--	--	--
	1983	--	707,031	120,593	--	--	--	--
Delivered	1982	--	--	719,869	--	--	--	--
	1983	--	707,031	120,593	--	--	--	--
Net	1982	--	--	--	--	--	--	--
	1983	--	--	--	--	--	--	--
Total net energy generated and received	1982	309,336	26,717,225	34,567,477	496,035	705,227	1,656,608	747,805
	1983	299,023	27,964,011	37,265,953	477,276	750,635	1,984,468	788,315
Sales to ultimate consumers	1982	291,961	23,744,812	30,868,061	342,516	598,903	--	578,151
	1983	282,136	25,016,370	32,762,193	340,182	637,952	--	616,711
Sales for resale	1982	--	867,631	1,126,621	120,812	67,089	1,656,608	102,219
	1983	--	751,111	1,537,289	107,892	71,697	1,984,468	101,906
Energy furnished without charge	1982	--	--	--	--	--	--	--
	1983	--	--	--	--	--	--	--
Energy used by company	1982	214	13,309	192,620	948	614	--	3,790
	1983	209	12,674	209,581	940	517	--	3,645
Energy losses								
Transmission & conversion	1982	11,434	--	--	--	--	--	--
	1983	10,715	--	--	--	--	--	--
Distribution	1982	5,727	--	--	--	--	--	63,645
	1983	5,963	--	--	--	--	--	66,053
Unaccounted for losses	1982	--	2,091,473	2,380,175	31,759	38,621	--	--
	1983	--	2,183,856	2,756,890	28,262	40,519	--	--
Total energy losses	1982	17,161	2,091,473	2,380,175	31,759	38,621	--	63,645
	1983	16,678	2,183,856	2,756,890	28,262	40,519	--	66,053
Total disposition of energy	1982	309,336	26,717,225	34,567,477	496,035	705,227	1,656,608	747,805
	1983	299,023	27,964,011	37,265,953	477,276	750,685	1,984,468	788,315

SOURCE: U.S. Department of Energy, Energy Information Administration, Financial Statistics of Selected Electric Utilities (annual publication).

a. Excluding station use.

TABLE XIX-36. FINANCIAL INDICATORS OF SELECTED PRIVATELY OWNED ELECTRIC UTILITIES IN MICHIGAN: DECEMBER 31, 1982 AND 1983

	Year	Alpena Power Company	Consumers Power Company	Detroit Edison Company	Edison Sault Electric Company	Michigan Power Company	Upper Peninsula Generating Company	Upper Peninsula Power Company
Common equity	1982	57.1	38.4	35.1	36.4	51.4	21.2	34.0
	1983	53.5	41.8	39.0	41.9	52.0	22.9	36.5
Preferred stock	1982	11.0	7.8	7.7	9.6	0.0	0.0	10.6
	1983	10.2	7.2	7.3	9.6	0.0	0.0	10.0
Long-term debt	1982	22.4	48.2	53.5	49.5	48.6	63.3	55.4
	1983	19.3	48.5	53.7	46.4	46.2	63.6	53.5
Short-term debt (notes payable)	1982	9.5	5.6	3.7	4.5	0.0	15.5	0.0
	1983	17.0	2.5	0.0	2.1	1.8	13.5	0.0
Rate of return on electric utility rate base	1982	18.38	11.94	11.28	10.82	7.70	7.91	11.34
	1983	10.43	14.29	12.85	10.68	11.82	7.31	11.61
Common equity percent of total capitalization[a]	1982	64.2	39.9	35.9	37.8	52.3	24.4	38.5
	1983	63.8	41.7	37.7	40.5	52.1	25.7	35.3
Rate of return on common equity	1982	28.5	9.4	9.0	16.7	5.4	0.0	13.6
	1983	12.7	9.7	11.0	17.7	12.4	0.0	15.6
Interest coverage X earned before taxes	1982	7.88	1.78	1.67	2.56	1.28	1.01	2.76
	1983	4.56	1.92	1.96	3.13	2.21	1.01	2.83
Interest coverage X earned after taxes	1982	4.79	1.78	1.66	2.16	1.25	1.01	2.11
	1983	3.08	1.94	1.91	2.57	1.90	1.01	2.17

SOURCE: U.S. Department of Energy, Energy Information Administration, Financial Statistics of Selected Electric Utilities, annual publication.

a. Excludes short-term debt as a part of total capitalization.

XX. WHOLESALE TRADE

The first postwar business census covered the year 1948, and subsequent censuses have been taken twice each decade. The current law authorizes the U.S. Bureau of the Census to canvas the nation's industrial and business establishments at five-year intervals in years ending in [illegible] and 7. These economic censuses cover construction industries, manufacturing, mining, retail trade, selected services, selected transportation, and wholesale trade.

Each establishment is classified on the basis of its major economic activity: selling merchandise to retailers; to industrial, commercial, institutional, farm or professional users; and to other wholesalers; or acting as agents or brokers in buying merchandise for or selling merchandise to persons or companies classified as wholesalers. Also included are wholesale liquor establishments operated by state or local governments. The basic tabulations in this chapter do not include data for central administrative offices, captive warehouses, and other units that service or are auxiliary to wholesale establishments within the same organization.

The 1982 Census of Wholesale Trade covers all such establishments that have a payroll. Firms with payrolls were sent questionnaires for each establishment operated.

Sales reported in the Census of Wholesale Trade do not include wholesale sales incidental to other kinds of business, such as retailing or services. They do include total receipts, including accruals, of wholesale establishments even though some of these receipts were from servicing merchandise, carrying charges, delivering merchandise, retailing to households, and so forth. Refunds and allowances for merchandise returned are deducted. Sales and excise taxes are included, but nonoperating income (rental of real estate, interest or dividends on investments, and so forth) is not. Sales figures include sales so defined of all establishments in business at any time during the year, whereas the number of establishments in the Census of Retail Trade excludes those that have gone out of business during the year.

Payroll is as defined by the Internal Revenue Service. It includes wages and salaries, gratuities reported to the employer, commissions, bonuses, vacation and sick leave pay before deducting employee income taxes, Social Security taxes, union dues, and so forth.

Employment for the pay period including 12 March 1982 consists of paid employees of corporations and unincorporated businesses, including salaried officers and executives of corporations, but excluding proprietors and partners of unincorporated businesses. Employees on paid sick leave or holiday or on paid vacation also are included.

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TABLE XX-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF SALES WORKERS IN MICHIGAN AND THE UNITED STATES WHOLESALE TRADE ESTABLISHMENTS: 1956-1984

	Michigan				United States			
	Employment	Weekly[a]		Hourly	Employment	Weekly		Hourly
Year	(000)	Hours	Earnings	earnings[a]	(000)	Hours	Earnings	earnings
1956	103.5	40.3	85.72	2.13	3,018	40.5	78.57	1.94
1957	101.9	40.6	88.18	2.17	3,028	40.3	81.41	2.02
1958	103.2	40.9	87.57	2.14	2,980	40.2	84.02	2.09
1959	99.9	40.5	97.16	2.40	3,082	40.6	88.51	2.18
1960	102.9	40.4	99.59	2.47	3,143	40.5	90.72	2.24
1961	101.7	40.7	102.56	2.52	3,133	40.5	93.56	2.31
1962	104.7	40.8	104.33	2.56	3,198	40.6	96.22	2.37
1963	105.9	41.7	109.34	2.62	3,248	40.6	99.47	2.45
1964	111.3	43.3	118.70	2.74	3,337	40.7	102.56	2.52
1965	119.8	43.3	127.43	2.94	3,466	40.8	106.49	2.61
1966	127.9	43.7	136.56	3.13	3,597	40.7	111.11	2.73
1967	133.1	45.8	147.29	3.22	3,689	40.3	116.06	2.88
1968	135.8	41.0	133.91	3.27	3,779	40.1	122.31	3.05
1969	137.4	40.6	155.01	3.82	3,907	40.2	129.85	3.23
1970	144.8	40.2	165.06	4.11	3,993	39.9	137.26	3.44
1971	144.8	39.7	173.73	4.38	4,001	39.5	144.18	3.65
1972	146.0	39.7	184.18	4.63	4,113	39.4	151.69	3.85
1973	150.6	40.1	197.13	4.92	4,277	39.3	160.34	4.08
1974	153.5	39.8	211.48	5.31	4,433	38.8	170.33	4.39
1975	146.9	41.2	253.63	6.16	4,415	38.7	183.05	4.73
1976	148.9	39.2	244.81	6.25	4,546	38.7	194.66	5.03
1977	151.8	39.1	257.53	6.59	4,708	38.8	209.13	5.39
1978	164.2	39.6	292.89	7.40	4,969	38.8	228.14	5.88
1979	170.4	38.6	304.40	7.89	5,204	38.8	247.93	6.39
1980	161.5	38.8	323.94	8.35	5,275	38.5	267.96	6.96
1981	157.9	39.1	358.99	9.19	5,358	38.5	291.06	7.56
1982	150.7	39.0	381.18	9.78	5,278	38.3	309.85	8.09
1983	154.6	38.5	385.20	10.00	5,268	38.5	329.18	8.55
1984	170.0	39.5	419.49	10.62	5,550	38.6	345.86	8.64

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings, (Washington, D.C.: monthly), March 1985, Table B-1 and C-1; and Supplement to Employment and Earnings (Washington, D.C.: June 1985).

TABLE XX-2. SUMMARY STATISTICS FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN AND THE UNITED STATES: 1947, 1954, 1958, 1963, 1967, 1972, 1977 AND 1982

	Establishments with payroll							
	Number[a] (000)		Sales ($1,000,000)		Annual payroll ($1,000,000)		Paid employees[b] (000)	
Year	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.
1947[c]	8,485	243,366	6,721	188,689	319	7,991	88,725	2,382,789
1947	7,600	216,099	n.a.	n.a.	298	7,734	83,138	2,305,403
1954	9,441	250,322	10,087	233,976	479	10,868	99,793	2,590,361
1958	10,797	285,996	11,600	284,971	547	13,199	105,273	2,797,341
1963	11,635	308,177	14,055	358,386	711	18,101	113,845	3,088,706
1967	11,436	311,464	18,800	459,476	976	23,922	131,751	3,518,969
1972[d]	12,208	348,168	26,238	683,659	1,369	35,887	133,359	3,878,181
1972[e]	12,827	369,791	26,546	695,224	1,397	36,893	137,037	4,026,118
1977[e]	12,572	382,837	45,152	1,258,400	2,109	58,290	141,484	4,397,089
1982	12,999	418,000	59,806	1,972,600	3,041	94,700	146,482	4,962,000

SOURCE: Bureau of the Census, 1982 Census of Wholesale Trade, Geographic Area Series, Michigan (Washington, D.C.: 1985), WC82-A-23, Table 1; and similar documents for other years.

a. Excludes establishments with no paid employment.

b. Week including 15 November for 1947-1963; week including 12 March for 1967 and 1972.

c. Unrevised statistics. Based upon reports from establishments with sales volume of $5,000 or over.

d. Based on 1967 Standard Industrial Classification.

e. Based on 1972 Standard Industrial Classification.

TABLE XX-3. GENERAL STATISTICS FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN, BY TYPE OF OPERATION: 1977 AND 1982

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
Merchant wholesalers						
Wholesale merch. & dist.	1977	9,366	17,537,764	1,427,456	332,317	102,091
	1982	10,159	27,600,625	2,121,069	519,573	111,358
Grain elevators (terminals, and country)	1977	148	475,527	17,628	3,785	1,452
	1982	133	533,704	18,660	4,042	1,111
Importers	1977	157	650,879	28,817	6,939	1,951
	1982	246	1,369,099	84,971	21,862	3,943
Exporters	1977	29	95,387	2,449	538	179
	1982	48	234,346	5,292	1,124	270
TOTAL	1977	9,813	19,279,693	1,490,858	347,208	107,214
	1982	10,159	27,600,625	2,121,069	519,573	111,358
Manufacturers' sales branches and offices						
Mfg. sales branches, with stock	1977	772	7,822,860	340,886	81,072	19,616
	1982	686	11,028,582	484,222	118,899	18,501
Mfg. sales offices, without stock	1977	561	12,607,442	142,927	35,379	7,042
	1982	628	14,146,681	254,195	65,878	9,277
TOTAL	1977	1,333	20,430,302	483,813	116,451	29,658
	1982	1,314	25,175,263	738,417	184,777	27,778
Merchandise agents and brokers						
Merchandise brokers for buyers or sellers	1977	129	795,116	15,655	3,826	1,038
	1982	237	1,608,400	31,055	7,852	1,538
Commission merchants	1977	208	605,759	15,596	3,486	978
	1982	296	1,711,681	45,636	11,159	1,620
Manufacturers' agents	1977	1,039	3,680,751	99,519	23,212	4,916
	1982	913	2,919,242	93,558	24,543	3,342
Other agents & brokers	1977	50	359,898	3,479	787	680
	1982	80	790,569	11,581	2,381	846
TOTAL	1977	1,426	5,441,524	134,249	31,311	7,612
	1982	1,526	7,029,892	181,830	45,935	7,346
GRAND TOTAL	1977	12,572	45,151,519	2,106,920	494,970	141,484
	1982	12,999	59,805,780	3,041,316	750,285	146,482

SOURCE: Bureau of the Census, U.S. Census of Wholesale Trade, 1982, Area Series, Michigan (Washington, D.C.: 1985), WC82-A-23, Table 1; and a similar document for 1977.

[a] Excludes establishments with no paid employment.

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
Durable goods						
Motor vehicles and automotive parts and supplies	1977	1,523	8,998,004	269,239	64,253	17,798
	1982	1,514	11,424,173	355,362	86,922	16,395
Automobiles & other motor vehicles	1977	220	5,268,222	60,091	14,567	2,569
	1982	213	6,810,116	77,256	19,101	3,269
Automotive parts & supplies	1977	1,197	3,570,220	195,138	46,752	13,356
	1982	1,220	4,306,433	264,994	64,648	12,437
Tires and tubes	1977	106	159,562	14,010	2,934	873
	1983	81	307,624	13,112	3,173	689
Furniture & home furnishings	1977	328	709,908	42,862	9,838	3,062
	1982	293	796,161	57,907	14,264	3,047
Furniture	1977	159	206,345	16,301	3,838	1,207
	1982	147	284,659	25,270	6,199	1,210
Home furnishings	1977	169	503,583	26,561	5,499	1,855
	1982	146	511,502	32,637	8,065	1,837
Lumber & other construction materials	1977	594	1,539,060	87,570	19,254	5,403
	1982	599	1,453,802	101,335	23,355	4,815
Lumber, plywood, & millwork	1977	249	783,185	43,513	9,939	2,758
	1982	229	763,661	47,303	10,908	2,160
Construction materials, N.E.C.	1977	345	755,875	44,057	9,315	2,645
	1982	370	690,141	54,032	12,447	2,655
Sporting, recreational, photographic, & hobby goods, toys & supplies	1977	212	426,087	32,166	7,513	2,290
	1982	213	555,637	34,984	8,663	1,900
Sporting & recreational goods and supplies	1977	117	260,075	17,800	4,052	1,300
	1982	121	280,328	15,472	3,687	907

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
Durable goods (cont.)						
Hobby goods, toys, & supplies	1977	55	103,758	7,205	1,747	550
	1982	51	133,057	7,069	1,656	452
Photographic equip. & supplies	1977	40	62,254	7,161	1,714	440
	1982	41	142,252	12,443	3,320	541
Metals & minerals except petroleum	1977	515	6,463,559	132,170	30,195	7,456
	1982	501	6,061,797	196,802	50,192	7,411
Metals service centers and offices	1977	487	6,105,989	127,864	29,297	7,253
	1982	481	5,836,519	193,458	49,380	7,294
Coal & other minerals & ores	1977	28	357,570	4,306	898	205
	1982	20	225,278	3,344	812	117
Electrical goods	1977	763	2,252,456	124,987	29,775	8,458
	1982	778	2,750,237	184,806	46,006	8,521
Electrical apparatus & equipment	1977	439	1,177,600	70,288	16,894	4,597
	1982	455	1,513,503	116,964	29,739	5,190
Electrical appliances, TV and radio sets	1977	99	680,878	29,249	6,853	2,028
	1982	101	764,768	33,470	7,654	1,504
Electronic parts & equipment	1977	225	393,978	25,450	6,028	1,833
	1982	222	471,966	34,372	8,613	1,827
Hardware, plumbing, heating equipment, supplies	1977	686	1,101,409	93,127	22,436	6,375
	1982	738	1,299,066	124,309	33,317	6,463
Hardware	1977	207	375,782	31,126	7,618	2,277
	1982	234	455,272	45,298	12,324	2,426
Plumbing, heating equipment & supplies (hydronics)	1977	286	422,440	35,518	8,676	2,430
	1982	308	512,087	45,733	12,012	2,411

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
		Durable goods (cont.)				
Warm air heating & air conditioning equipment & supplies	1977	153	263,237	21,229	4,830	1,340
	1982	129	(D)	(D)	(D)	(D)
Refrigeration equipment & supplies	1977	40	39,950	5,254	1,312	328
	1982	34	(D)	(D)	(D)	(D)
Machinery equipment & supplies	1977	3,082	6,270,130	566,178	134,266	35,168
	1982	2,752	4,155,763	517,718	129,918	27,073
Commercial machines & equipment	1977	466	945,647	154,416	37,084	8,810
	1982	500	792,773	90,198	21,712	4,752
Construction & mining machinery & equipment	1977	151	347,968	36,098	8,700	2,178
	1982	101	199,030	27,597	6,904	1,288
Farm & garden machinery & equipment	1977	454	579,517	43,419	10,328	3,655
	1982	408	(D)	(D)	(D)	(D)
Industrial machinery & equipment	1977	879	2,106,440	154,040	36,030	8,562
	1982	731	1,120,062	145,468	37,802	6,879
Industrial supplies	1977	566	1,654,862	104,387	24,772	6,462
	1982	454	700,104	89,886	23,635	4,649
Professional equipment & supplies	1977	304	430,648	48,211	11,492	3,419
	1982	294	602,940	72,040	17,339	3,864
Service estab. equip. & supp.	1977	228	148,049	21,674	4,993	1,780
	1982	228	169,103	29,801	7,064	1,774
Trans. equip. & supplies except motor vehicles	1977	34	56,999	3,933	867	302
	1982	36	(D)	(D)	(D)	(D)
Misc. durable goods	1977	573	1,090,360	83,747	17,857	6,187
	1982	506	750,746	77,269	19,214	4,629

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
Durable goods (cont.)						
Scrap & waste materials	1977	344	656,261	53,682	12,442	4,160
	1982	312	555,807	60,677	15,664	3,498
Jewelry, watches, diamonds, & other precious stones	1977	65	70,170	6,649	1,396	544
	1982	76	126,625	7,131	1,454	541
Durable goods, N.E.C.	1977	164	263,929	23,416	4,019	1,485
	1982	226	485,961	22,855	5,537	1,255
TOTAL DURABLE GOODS	1977	8,276	28,850.973	1,432,046	335,367	92,199
	1982	8,734	33,855,402	1,978,825	494,499	92,607
Nondurable goods						
Paper & paper products	1977	379	757,167	62,460	14,714	4,338
	1982	318	771,636	80,838	19,348	4,219
Printing & writing paper	1977	39	294,955	19,576	4,529	1,132
	1982	46	330,934	24,094	5,935	943
Stationery supplies	1977	240	191,872	25,993	6,031	2,033
	1982	182	188,700	31,417	7,418	2,061
Industrial & personal service paper	1977	100	270,340	17,391	4,154	1,173
	1982	90	252,002	25,327	5,995	1,215
Drugs, drug proprietaries, druggists' sundries	1977	94	455,458	20,818	4,950	1,676
	1982	86	695,773	33,860	7,822	1,823
Apparel, piece goods, and notions	1977	146	273,729	18,053	4,469	1,306
	1982	105	166,249	14,079	3,341	772
Piece goods	1977	42	108,027	5,138	1,222	304
	1982	33	61,170	5,176	1,142	237

TABLE XX-5. SELECTED DATA FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Paid employees 12 March
Alcona	1977	4	(D)	(D)	(D)
	1982	5	(D)	(D)	(D)
Alger	1977	10	(D)	(D)	(D)
	1982	9	21,821	522	34
Allegan	1977	104	118,281	7,173	654
	1982	103	203,687	14,232	832
Alpena	1977	55	70,313	5,416	447
	1982	60	116,001	7,309	528
Antrim	1977	17	13,517	1,045	125
	1982	17	21,748	1,118	98
Arenac	1977	23	27,418	1,236	110
	1982	16	57,467	1,458	98
Baraga	1977	8	2,952	150	19
	1982	8	4,809	290	24
Barry	1977	36	50,315	1,966	168
	1982	36	37,552	2,736	207
Bay	1977	158	732,166	25,738	1,898
	1982	139	632,922	31,521	1,716
Benzie	1977	9	6,580	302	23
	1982	6	9,544	357	21
Berrien	1977	199	299,399	19,798	1,565
	1982	230	831,537	41,598	2,265
Branch	1977	58	157,551	6,755	576
	1982	58	230,273	8,085	481
Calhoun	1977	170	350,388	18,756	1,504
	1982	161	389,660	22,903	1,480
Cass	1977	32	66,427	2,568	247
	1982	36	98,934	3,584	231
Charlevoix	1977	16	9,967	831	87
	1982	18	21,153	1,248	77
Cheboygan	1977	30	45,120	1,489	138
	1982	27	74,989	1,835	115
Chippewa	1977	47	98,112	3,142	266
	1982	47	49,594	3,055	254
Clare	1977	19	23,961	1,403	174
	1982	21	34,368	2,487	183
Clinton	1977	66	107,188	7,527	678
	1982	75	398,772	14,833	893
Crawford	1977	13	6,955	577	58
	1982	12	23,740	1,090	64
Delta	1977	65	100,189	4,916	461
	1982	61	135,062	7,331	475
Dickinson	1977	66	147,411	8,674	708
	1982	64	155,753	10,373	620
Eaton	1977	71	196,928	19,931	1,233
	1982	78	440,161	28,606	1,232

TABLE XX-5. SELECTED DATA FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Paid employees 12 March
Emmet	1977	50	44,688	4,248	357
	1982	42	60,326	6,374	368
Genesee	1977	394	1,199,319	64,912	4,355
	1982	408	1,572,531	93,020	4,627
Gladwin	1977	13	9,881	451	49
	1982	15	11,333	347	33
Gogebic	1977	28	24,140	1,718	176
	1982	25	30,756	1,940	148
Grand Traverse	1977	104	168,122	12,140	926
	1982	148	304,133	19,671	1,177
Gratiot	1977	61	130,630	6,015	554
	1982	56	137,629	5,945	450
Hillsdale	1977	57	103,350	5,068	501
	1982	51	203,285	7,261	583
Houghton	1977	35	25,116	1,866	204
	1982	30	39,851	2,451	159
Huron	1977	68	110,848	6,656	554
	1982	[illegible]	174,888	9,709	528
Ingham	1977	377	1,172,055	75,382	5,080
	1982	367	1,198,466	103,846	5,147
Ionia	1977	52	46,395	3,053	302
	1982	43	95,770	3,967	300
Iosco	1977	27	15,741	1,216	113
	1982	23	29,110	1,563	162
Iron	1977	17	17,697	1,668	159
	1982	11	11,586	1,118	83
Isabella	1977	65	197,248	8,325	611
	1982	70	538,226	13,790	764
Jackson	1977	191	449,428	23,309	1,810
	1982	172	584,857	32,613	1,777
Kalamazoo	1977	340	676,551	51,282	3,726
	1982	356	1,209,402	86,274	4,342
Kalkaska	1977	14	14,320	1,142	88
	1982	21	21,253	1,961	106
Kent	1977	998	3,403,035	202,084	14,125
	1982	1,087	5,047,236	311,283	15,099
Keweenaw	1977	1	(D)	(D)	(D)
	1982	1	(D)	(D)	(D)
Lake	1977	1	(D)	(D)	(D)
	1982	5	3,576	242	21
Lapeer	1977	45	50,377	3,211	325
	1982	52	120,245	6,866	518
Leelanau	1977	12	8,860	528	50
	1982	9	13,304	500	50
Lenawee	1977	120	181,657	13,461	1,088
	1982	116	262,018	13,915	838

TABLE XX-5. SELECTED DATA FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Paid employees 12 March
Livinston	1977	76	60,672	6,138	456
	1982	107	154,435	13,262	768
Luce	1977	8	(D)	(D)	(D)
	1982	11	7,394	662	55
Mackinac	1977	14	6,833	463	51
	1982	18	15,201	768	61
Macomb	1977	626	1,363,960	109,103	7,508
	1982	707	1,743,319	162,831	8,000
Manistee	1977	25	32,549	2,052	182
	1982	23	73,688	3,533	260
Marquette	1977	89	123,584	9,690	831
	1982	78	105,851	10,077	659
Mason	1977	29	23,314	1,926	214
	1982	33	47,655	3,162	203
Mecosta	1977	26	17,907	1,274	124
	1982	27	35,105	2,247	186
Menominee	1977	41	73,238	4,054	343
	1982	39	111,073	6,231	360
Midland	1977	48	50,371	4,202	349
	1982	44	42,812	4,876	301
Missaukee	1977	10	8,480	541	48
	1982	13	13,731	911	63
Monroe	1977	94	159,154	9,124	708
	1982	92	279,339	21,468	1,004
Montcalm	1977	65	174,765	6,288	545
	1982	65	207,950	8,458	543
Montmorency	1977	10	3,629	209	27
	1982	6	2,999	230	25
Muskegon	1977	177	(D)	(D)	(D)
	1982	163	698,059	30,313	1,741
Newaygo	1977	24	23,565	1,797	217
	1982	41	48,762	2,997	242
Oakland	1977	2,591	17,173,217	507,058	28,733
	1982	2,869	21,078,632	815,115	32,783
Oceana	1977	17	(D)	(D)	(D)
	1982	12	15,289	897	54
Ogemaw	1977	22	11,555	829	86
	1982	21	58,120	2,838	151
Ontonagon	1977	6	2,600	219	25
	1982	5	4,522	284	27
Osceola	1977	17	22,349	903	103
	1982	15	22,083	927	75
Oscoda	1977	8	1,768	160	20
	1982	2	(D)	(D)	(D)
Otsego	1977	34	43,474	2,394	203
	1982	35	92,246	4,691	277

TABLE XX-5. SELECTED DATA FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Paid employees 12 March
Ottawa	1977	199	366,065	19,962	1,712
	1982	233	591,144	34,891	1,988
Presque Isle	1977	15	7,545	425	67
	1982	18	9,032	602	76
Roscommon	1977	17	5,050	573	47
	1982	18	7,603	648	51
Saginaw	1977	322	764,766	52,505	3,772
	1982	327	1,247,854	72,473	3,699
St. Clair	1977	124	173,690	12,598	1,063
	1982	140	266,862	19,289	1,205
St. Joseph	1977	63	143,987	5,320	452
	1982	65	146,554	10,675	655
Sanilac	1977	70	71,210	4,982	466
	1982	65	95,394	6,261	426
Schoolcraft	1977	11	8,702	768	76
	1982	10	9,665	609	43
Shiawassee	1977	88	113,376	6,493	580
	1982	79	164,838	8,026	525
Tuscola	1977	83	232,504	9,836	812
	1982	67	205,433	7,109	475
Van Buren	1977	75	78,038	5,388	453
	1982	73	117,541	7,843	608
Washtenaw	1977	257	371,247	28,263	2,145
	1982	304	700,394	45,016	2,686
Wayne	1977	2,802	12,271,694	637,471	40,481
	1982	2,674	15,651,569	793,451	36,641
Wexford	1977	44	48,854	3,902	306
	1982	41	71,602	6,288	343
TOTAL	1977	12,572	45,151,519	2,108,920	141,484
	1982	12,999	59,805,780	3,041,316	146,482

SOURCE: Bureau of the Census, U.S. Census of Wholesale Trade, 1982, Area Series, Michigan (Washington, D.C.: 1985), WC82-A-23, Table 8; and similar document for 1977.

a. Excludes establishments with no paid employment.
(D). Data withheld to avoid disclosing figures for individual companies.

TABLE XX-6. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN WHOLESALE TRADE ESTABLISHMENTS AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

County	Percentage 1973	Percentage 1983	County	Percentage 1973	Percentage 1983
Antrim	(D)	14.75	Gogebic	3.88	2.99
Dickinson	6.43	11.52	Lapeer	2.04	2.88
Tuscola	5.68	9.79	Cass	3.66	2.72
Osceola	2.27	9.67	Ionia	1.73	2.70
Kent	7.81	8.93	Mason	1.87	2.68
Oakland	6.45	8.82	Chippewa	1.89	2.63
Branch	6.39	6.94	Missaukee	2.46	2.62
Genesee	5.97	6.80	Marquette	2.55	2.57
Huron	2.04	6.27	Lenawee	1.76	2.48
Bay	5.81	6.21	Monroe	1.89	2.48
Menominee	5.36	5.60	Presque Isle	1.52	2.40
Wayne	7.03	5.58	Clare	1.48	2.31
Grand Traverse	3.89	5.33	Washtenaw	1.73	2.30
Montcalm	2.16	5.01	Delta	3.06	2.29
Emmet	5.89	4.87	Calhoun	2.55	2.24
Eaton	2.08	4.55	St. Joseph	2.98	2.23
Kalamazoo	3.85	4.47	Benzie	0.87	2.15
Alpena	3.50	4.38	Mackinac	2.08	2.12
Isabella	4.34	4.25	Oceana	1.38	2.02
Hillsdale	2.99	4.23	Cheboygan	3.16	1.79
Shiawassee	3.04	4.15	Luce	2.80	1.49
Wexford	4.24	4.11	Crawford	1.87	1.47
Ottawa	4.00	4.00	Charlevoix	1.77	1.44
Berrien	2.89	3.78	Mecosta	1.03	1.37
Allegan	2.21	3.69	Alger	1.33	1.21
Gratiot	3.04	3.63	Baraga	(D)	0.78
Ogemaw	2.49	3.61	Alcona	0.98	0.75
Sanilac	1.75	3.52	Schoolcraft	(D)	0.49
Jackson	3.33	3.50	Barry	1.19	(D)
Macomb	3.04	3.49	Clinton	3.88	(D)
Kalkaska	(D)	3.45	Iosco	(D)	(D)
Houghton	2.30	3.40	Iron	4.01	(D)
Van Buren	2.34	3.39	Keweenaw	1.64	(D)
Livingston	2.78	3.35	Lake	(D)	(D)
Otsego	2.90	3.33	Leelanau	(D)	(D)
Ingham	3.26	3.30	Midland	0.66	(D)
Muskegon	3.86	3.29	Montmorency	(D)	(D)
St. Clair	3.77	3.18	Ontonagon	0.63	(D)
Newaygo	2.09	3.13	Oscoda	(D)	(D)
Saginaw	4.28	3.10	Roscommon	2.26	(D)
Gladwin	2.63	3.10			
Arenac	5.10	3.02	Michigan	5.30	5.36
Manistee	3.46	3.00	United States	6.01	6.69

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XX-7. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN WHOLESALE TRADE ESTABLISHMENTS: 1982-1983

County	Percentage change 1973-1983	Percentage change 1982-1983	County	Percentage change 1973-1983	Percentage change 1982-1983
Benzie	387	119	Bay	93	5
Luce	22	79	Tuscola	87	5
Cheboygan	9	66	Houghton	218	5
Crawford	68	41	Gladwin	132	5
St. Clair	76	29	Saginaw	30	4
Kalkaska	(D)	20	Branch	105	4
Washtenaw	223	20	Muskegon	56	3
Dickinson	279	19	Manistee	86	3
St. Joseph	41	19	Oceana	164	3
Kalamazoo	170	16	Eaton	322	3
Alger	66	15	Berrien	106	2
Cass	32	15	Gratiot	100	2
Montcalm	443	14	Missaukee	69	2
Chippewa	70	14	Wayne	19	0
Livingston	202	13	Shiawassee	132	0
Charlevoix	68	13	Huron	375	-3
Kent	160	12	Marquette	104	-3
Clare	230	12	Ionia	175	-3
Osceola	701	11	Arenac	11	-4
Antrim	(D)	11	Schoolcraft	(D)	-5
Presque Isle	179	10	Alcona	31	-5
Lapeer	180	10	Sanilac	185	-7
Jackson	76	10	Lenawee	112	-7
Mason	159	10	Hillsdale	152	-7
Grand Traverse	277	10	Gogebic	20	-8
Macomb	110	9	Mecosta	172	-11
Oakland	219	9	Isabella	130	-15
Van Buren	153	9	Delta	53	-20
Ogemaw	216	9	Barry	(D)	(D)
Ottawa	144	8	Clinton	(D)	(D)
Wexford	119	8	Iosco	(D)	(D)
Emmet	78	8	Iron	(D)	(D)
Calhoun	52	7	Keweenaw	(D)	(D)
Baraga	(D)	7	Lake	(D)	(D)
Genesee	121	7	Leelanau	(D)	(D)
Otsego	199	7	Midland	(D)	(D)
Mackinac	104	6	Montmorency	(D)	(D)
Newaygo	194	6	Ontonagon	(D)	(D)
Allegan	240	6	Oscoda	(D)	(D)
Alpena	127	6	Roscommon	(D)	(D)
Monroe	191	6			
Ingham	133	6	Michigan	88	6
Menominee	117	6	United States	158	4

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

XXI. RETAIL TRADE

The first postwar business census was for 1948. Currently, the U.S. Bureau of the Census is authorized to conduct canvasses every five years, for years ending in 2 and 7. These economic censuses of industrial and business establishments cover construction, manufacturing, mining, retail trade, selected services, selected transportation industries, and wholesale trade. Establishments are classified on the basis of major economic activity, and those primarily engaged in selling goods for personal or household consumption are grouped under retail trade. They are further classified according to kind of business, which usually reflects commodity groupings. For example, food stores include establishments primarily selling food for preparation and consumption in the home. In some cases, such as variety stores, the classification is based on variety of merchandise, price range, or manner of doing business.

Beginning in 1954, the Census of Retail Trade has excluded firms with no paid employees during the census year unless they reported sales of $2,500 or more. Firms with no paid employees were not canvased, their sales figures and classification being obtained from income tax returns.

It is customary in a economic census to classify each establishment separately, irrespective of whether it is part of a larger organization. For example, each McDonald's is counted as one restaurant.

Sales reported in the Census of Retail Trade do not include retail sales incidental to other kinds of business, such as wholesaling or services. They do include total receipts, including accruals, of retail establishments, even though some of these receipts were from servicing merchandise, carrying charges, delivering merchandise, wholesaling to other retailers, and so forth. Trade-in allowances are not deducted, but refunds and allowances for merchandise returned are. Sales and excise taxes are included, but nonoperating income (rental of real estate, interest or dividends on investments, and so forth) is not. Sales figures include sales so defined of all establishments with a sales volume of $2,500 or more at any time during the year, whereas the number of establishments in the Census of Retail Trade excludes those that have gone out of business during the year. Also included are establishments in operation less than the full year with reported sales of less than $2,500, if they could have expected reaching the $2,500 figure on the basis of year-round operation.

Payroll is as defined by the Internal Revenue Service. It includes wages and salaries, gratuities reported to the employer, commissions, bonuses, vacation and sick leave pay before deducting employees' income taxes, Social Security taxes, union dues, and so forth. Payments in kind, such as free restaurant meals, are included.

Employment for the pay period including 12 March 1982 consists of paid employees of corporations and unincorporated businesses, including salaried officers and executives of corporations, but excluding proprietors and partners of unincorporated businesses. Employees on paid sick leave or on holiday or paid vacation also are included.

All data exclude the activities of central administrative offices such as Kresge Headquarters in Troy. Auxiliaries, such as regional warehouses that supply retail outlets but conduct no retail business themselves, are excluded also.

Monthly Retail Trade, a publication of the U.S. Bureau of the Census, is based upon reports from a sample of establishments in the United States. Separate data on sales volume also are available for large states and Standard Metropolitan Statistical Areas.

The Michigan Liquor Control Commission has a monopoly on the wholesaling of liquor (but not beer and wine) in the state. It also licenses all retail outlets for consumption of liquor, wine, and beer on or off premises.

Personal income data are released by the Bureau of Economic Analysis, U.S. Department of Commerce. Personal income statistics are discussed in Chapter VI.

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TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982(cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
Nondurable goods (cont.)						
Notions & other dry goods	1977	15	15,321	1,022	284	113
	1982	14	(D)	(D)	(D)	(D)
Men's & boys' clothing and furnishings	1977	40	55,873	3,027	706	247
	1982	34	60,096	5,130	1,325	278
Women's, children's, & infants clothing & accessories	1977	36	52,293	5,349	1,389	399
	1982	17	(D)	(D)	(D)	(D)
Footwear	1977	13	42,215	3,337	868	243
	1982	7	22,009	1,863	418	116
Groceries & related products	1977	1,172	5,923,574	242,140	57,065	17,550
	1982	858	5,283,258	280,643	66,691	14,455
Groceries, general line	1977	103	1,553,326	65,387	15,178	4,229
	1982	97	1,861,683	89,566	22,251	3,971
Frozen foods	1977	77	245,634	9,881	2,397	728
	1982	43	225,429	12,123	2,497	702
Dairy products	1977	124	666,378	16,890	3,988	1,280
	1982	87	323,620	21,559	5,074	1,046
Poultry & poultry products	1977	49	207,925	9,680	2,214	781
	1982	36	183,327	8,811	2,124	607
Confectionery	1977	75	120,103	5,829	1,394	523
	1982	50	63,503	4,196	962	279
Fish & seafoods	1977	38	79,388	5,341	1,247	408
	1982	26	(D)	(D)	(D)	(D)
Meat & meat products	1977	202	993,955	46,731	11,305	3,242
	1982	165	1,130,874	47,671	11,472	2,544
Fresh fruits & vegetables	1977	189	453,060	22,274	5,318	1,941
	1982	156	549,021	31,245	6,795	1,882
Groceries & related products, N.E.C.	1977	315	1,603,805	60,127	14,024	4,418
	1982	198	(D)	(D)	(D)	(D)

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
Nondurable goods (cont.)						
Farm product raw materials	1977	268	924,261	26,360	5,839	2,545
	1982	233	1,231,345	30,608	6,435	1,785
Cotton	1977	(D)	(D)	(D)	(D)	(D)
	1982	1	(D)	(D)	(D)	(D)
Grain	1977	207	602,529	21,218	4,809	1,786
	1982	196	(D)	(D)	(D)	(D)
Livestock	1977	40	288,550	2,723	625	636
	1982	21	169,011	1,307	299	131
Farm product raw materials N.E.C.	1977	21	33,182	1,827	405	123
	1982	15	(D)	(D)	(D)	(D)
Chemicals & allied products	1977	276	1,853,816	48,765	1,210	2,864
	1982	212	458,799	40,285	10,328	1,825
Petroleum & petroleum products	1977	654	3,153,807	69,973	17,764	5,611
	1982	449	2,896,239	77,244	19,523	5,392
Petroleum bulk stations and terminals	1977	516	2,480,344	51,422	13,398	4,357
	1982	327	1,585,501	53,374	13,304	3,848
Petroleum & petroleum products, except bulk stations & terminals	1977	138	673,463	18,551	4,366	1,254
	1982	122	1,310,738	23,870	6,219	1,544
Beer, wine & distilled alcoholic beverages	1977	343	1,230,378	84,787	18,616	4,705
	1982	293	1,522,870	130,708	31,022	5,235
Beer & ale	1977	204	599,841	65,966	14,145	3,400
	1982	175	(D)	(D)	(D)	(D)
Wines & distilled alcoholic beverages	1977	139	630,537	18,822	4,471	1,305
	1982	118	(D)	(D)	(D)	(D)

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
		Nondurable goods (cont.)				
Misc. nondurable goods	1977	964	1,728,356	103,518	24,156	8,690
	1982	830	1,817,291	115,529	26,765	7,115
Farm supplies	1977	370	406,023	24,587	5,700	2,272
	1982	334	539,562	33,458	7,475	2,080
Tobacco & tobacco products	1977	90	521,028	20,666	4,732	1,506
	1982	77	(D)	(D)	(D)	(D)
Paints, varnishes & supplies	1977	113	227,834	11,419	2,801	929
	1982	71	55,558	8,770	2,144	550
Nondurable goods, N.E.C.	1977	391	573,471	46,846	10,923	3,981
	1982	348	(D)	(D)	(D)	(D)
TOTAL NONDURABLE GOODS	1977	4,296	16,300,546	676,874	159,583	49,285
	1982	3,384	14,843,460	803,794	191,275	42,621
TOTAL	1977	12,572	45,151,519	2,108,920	494,970	141,484
	1982	12,999	59,805,780	3,041,316	750,285	146,482

SOURCE: Bureau of the Census, U.S. Census of Wholesale Trade, 1977, Area Series, Michigan (Washington, D.C.: 1980), WC77-A-23, Table I; and similar documents for 1982.

a. Excludes establishments with no paid employment.
(D): Withheld to avoid disclosing data for individual companies.
N.E.C.: not elsewhere classified.

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TABLE XXI-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF SALES WORKERS IN MICHIGAN AND THE UNITED STATES RETAIL TRADE ESTABLISHMENTS: 1956-1984

	Michigan[a]				United States			
	Employment	Weekly		Hourly	Employment	Weekly		Hourly
Year	(000)	Hours	Earnings	earnings[a]	(000)	Hours	Earnings	earnings
1956	370.6	38.9	65.55	1.69	7,840	38.6	50.18	1.30
1957	356.0	37.6	65.46	1.74	7,858	38.1	52.20	1.37
1958	332.1	37.1	64.18	1.73	7,770	38.1	54.10	1.42
1959	322.9	37.3	66.32	1.78	8,045	38.2	56.15	1.47
1960	348.0	37.6	67.27	1.79	8,248	38.0	57.76	1.52
1961	340.1	38.0	69.58	1.83	8,204	37.6	58.66	1.56
1962	342.4	37.7	74.04	1.96	8,368	37.4	60.96	1.63
1963	345.0	38.7	74.57	1.93	8,530	37.3	62.66	1.68
1964	365.2	38.4	72.69	1.92	8,823	37.0	64.75	1.75
1965	390.7	38.5	76.73	1.99	9,250	36.6	66.61	1.82
1966	410.7	37.6	78.88	2.10	9,648	35.9	68.57	1.91
1967	419.7	37.0	81.25	2.20	9,917	35.3	70.95	2.01
1968	433.8	36.1	86.50	2.40	10,320	34.7	74.95	2.16
1969	455.9	35.0	93.98	2.69	10,798	34.2	78.66	2.30
1970	458.3	34.4	97.87	2.85	11,047	33.8	82.47	2.44
1971	460.7	34.3	108.18	3.15	11,351	33.7	87.62	2.60
1972	478.9	35.1	118.32	3.38	11,836	33.4	91.85	2.75
1973	503.3	34.6	124.84	3.61	12,329	33.1	96.32	2.91
1974	510.9	34.3	129.08	3.77	12,554	32.7	102.68	3.14
1975	509.6	34.5	141.62	4.11	12,645	32.4	108.86	3.36
1976	531.0	33.9	146.12	4.31	13,209	32.1	114.60	3.57
1977	557.1	34.0	156.88	4.61	13,808	31.6	121.66	3.85
1978	584.9	34.0	174.22	5.12	14,573	31.0	130.20	4.20
1979	590.9	33.2	186.32	5.61	14,989	30.6	138.62	4.53
1980	572.1	32.0	187.29	5.85	15,035	30.2	147.38	4.88
1981	556.8	33.3	214.50	6.44	15,189	30.1	158.03	5.25
1982	542.6	33.6	231.65	6.98	15,179	29.9	163.85	5.48
1983	556.9	32.7	236.13	7.22	15,613	29.8	171.05	5.74
1984	573.6	n.a.	n.a.	n.a.	16,584	30.0	176.40	5.88

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: monthly), March 1985, Tables B-1 and C-1; and Supplement to Employment and Earnings (Washington, D.C.: June 1985).

a. Excludes restaurants and bars.
n.a.: Data not available.

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982

		Establishments with payroll				
				Payroll ($1,000)		
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Building materials, hardware, garden supply, and mobile home dealers						
Bldg. materials and supply stores	1977	1,261	1,080,288	120,393	26,832	10,408
	1982	1,178	1,091,391	134,418	31,024	8,833
Lumber and other bldg. material dealers	1977	937	1,002,657	106,832	23,551	8,935
	1982	898	995,323	119,013	27,585	7,569
Paint, glass, and wallpaper stores	1977	324	77,631	13,561	3,281	1,473
	1982	280	96,068	15,408	3,439	1,264
Hardware stores	1977	986	328,862	43,076	9,962	5,855
	1982	945	412,495	57,849	13,674	5,937
Retail nurseries, lawn & garden supply stores	1977	265	101,249	15,631	3,095	1,756
	1982	314	177,802	21,994	4,190	2,015
Mobile home dealers	1977	196	121,566	9,636	1,850	820
	1982	114	73,964	6,834	1,362	499
Total	1977	2,708	1,631,965	188,736	41,639	18,839
	1982	2,551	1,755,652	221,095	50,250	17,284
General merchandise group stores						
Department stores	1977	319	3,885,615	567,784	113,906	68,180
	1982	319	4,895,525	n.a.	n.a.	n.a.
Variety stores	1977	461	252,943	37,528	8,609	7,249
	1982	328	218,582	34,237	8,162	4,849
Misc. general merchandise stores	1977	359	230,587	24,438	5,573	3,750
	1982	290	271,950	28,487	6,267	3,702
Total	1977	1,139	4,369,145	629,750	127,088	79,179
	1982	937	4,927,608	608,533	138,185	66,661
Food stores						
Grocery stores	1977	4,650	5,980,923	558,991	129,210	58,974
	1982	4,607	7,711,535	740,712	175,668	64,926
Meat & fish (seafood) markets	1977	399	150,783	16,804	4,035	2,481
	1982	402	225,022	23,335	5,239	2,681
Fruit stores and vegetable mkts.	1977	176	96,821	8,118	1,682	1,469
	1982	181	160,721	14,399	2,633	1,814
Candy, nut, and confectionery stores	1977	267	34,149	6,724	1,472	1,190
	1982	237	37,972	7,009	1,604	1,084
Retail bakeries	1977	669	95,196	26,255	6,096	5,666
	1982	717	138,489	36,194	8,260	6,186
Retail bakeries, baking/selling	1977	570	83,189	23,792	5,458	5,094
	1982	648	124,194	34,064	7,754	5,805
Retail bakeries selling only	1977	99	12,007	2,463	638	572
	1982	69	14,295	2,130	506	381

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
		Food stores (cont.)				
Other food stores	1977	316	53,190	5,940	1,375	1,481
	1982	743	275,121	30,088	6,088	4,382
Dairy pro. stores	1977	170	21,699	2,828	640	886
	1982	127	27,094	3,060	583	626
Misc. food stores	1977	146	31,491	3,112	735	596
	1982	198	49,334	5,620	1,268	858
Total	1977	6,477	6,411,062	622,832	143,870	71,261
	1982	6,469	8,350,167	830,329	195,255	78,175
		Automotive dealers				
Motor vehicle dealers,	1977	1,174	6,290,913	486,762	116,237	33,285
new and used cars	1982	988	6,168,172	462,265	109,961	25,459
With domestic	1977	867	4,678,024	352,382	84,748	23,986
car franchise only	1982	n.a.	n.a.	n.a.	n.a.	n.a.
With imported car	1977	100	255,867	27,597	6,271	2,057
franchise only	1982	n.a.	n.a.	n.a.	n.a.	n.a.
Both	1977	207	1,357,022	106,783	25,218	7,242
	1982	n.a.	n.a.	n.a.	n.a.	n.a.
Motor vehicle dealers,	1977	383	160,455	11,885	2,482	1,109
used cars only	1982	280	150,175	9,733	2,122	766
Auto/home supply stores	1977	1,208	470,422	72,971	16,482	7,293
	1982	1,325	730,356	112,780	25,911	8,134
Tire, battery, and	1977	1,085	411,524	66,979	15,120	6,552
accessory dealers	1982	1,258	678,029	108,296	24,894	7,652
Other auto & home	1977	123	58,898	5,992	1,362	741
supply stores	1982	67	52,327	4,484	1,017	482
Misc. automotive	1977	695	413,459	38,616	7,681	3,791
dealers	1982	502	383,414	35,139	6,942	2,542
Boat dealers	1977	240	150,471	14,967	2,861	1,300
	1982	196	148,955	15,222	2,889	970
Recreational/util.	1977	188	148,323	12,078	2,382	1,085
trailer dealers	1982	125	119,778	9,215	1,818	618
Motorcycle dealers	1977	190	91,214	9,602	1,965	1,158
	1982	160	103,791	9,753	2,042	871
Auto dealers, N.E.C.	1977	77	23,451	1,969	473	248
	1982	21	10,890	949	193	83
Total	1977	3,460	7,335,249	610,234	142,862	45,478
	1982	3,095	7,432,117	619,917	144,936	36,901
		Gasoline service stations				
Total	1977	5,682	2,509,291	161,320	40,310	30,309
	1982	4,128	3,980,960	171,695	41,474	21,953

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
		Apparel and accessory stores				
Women's clothing, specialty, furriers	1977	1,479	711,578	101,237	23,516	17,216
	1982	1,675	981,129	111,861	26,191	15,747
Women's ready-to-wear stores	1977	1,295	666,510	94,748	22,071	16,251
	1982	1,443	931,353	103,607	24,230	14,584
Women's acc., specialty stores & furriers	1977	184	43,068	6,489	1,445	965
	1982	232	49,776	8,254	1,961	1,163
Men's/boy's clothing furnishing stores	1977	809	360,007	60,002	14,737	7,209
	1982	648	290,228	45,960	11,227	4,616
Family clothing stores	1977	410	234,461	29,439	7,568	5,639
	1982	496	410,146	50,590	11,457	6,942
Shoe stores	1977	933	250,834	36,516	8,137	5,032
	1982	1,310	453,905	59,448	14,237	7,159
Men's	1977	136	38,313	5,131	1,193	523
	1982	139	44,808	6,099	1,478	595
Women's	1977	187	58,696	9,407	2,021	1,310
	1982	324	123,594	17,403	4,159	1,976
Children's	1977	34	6,718	1,236	299	171
	1982	36	8,498	1,503	367	165
Family	1977	576	147,107	20,742	4,624	3,028
	1982	811	277,005	34,443	8,233	4,423
Other apparel and accessory stores	1977	351	63,576	10,320	2,483	1,901
	1982	337	86,479	11,528	2,632	1,873
Children's/infant's wear stores	1977	166	33,331	4,719	1,167	1,028
	1982	165	52,398	6,303	1,357	1,104
Misc. apparel and accessory stores	1977	185	30,245	5,601	1,316	873
	1982	172	34,081	5,225	1,275	769
Total	1977	3,982	1,620,456	237,514	56,441	36,997
	1982	4,466	2,221,887	279,387	65,744	36,337
		Furniture, home furnishings, and equipment stores				
Furniture and home furnishings stores	1977	1,754	780,108	123,430	27,902	11,937
	1982	1,649	876,480	128,412	29,474	10,719
Furniture stores	1977	945	516,997	82,561	18,701	7,515
	1982	817	556,912	81,713	19,188	6,359
Home furnishings	1977	809	263,111	40,869	9,201	4,422
	1982	832	319,568	46,699	10,286	4,360
Floor covering	1977	432	190,755	28,551	6,960	2,393
	1982	399	207,523	28,878	6,337	1,998
Drapery, curtain upholstery stores	1977	177	33,275	5,956	1,478	999
	1982	153	37,811	6,528	1,453	851
Misc. home furnishing stores	1977	200	39,081	6,362	1,363	1,030
	1982	280	74,234	11,293	2,496	1,511
Household appliance stores	1977	464	265,593	28,063	6,535	2,898
	1982	360	278,647	30,481	7,250	2,479

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Furniture, home furnishings, and equipment stores (cont.)						
Radio, television and music stores	1977	953	382,838	46,889	11,375	5,502
	1982	891	476,300	51,908	12,764	4,739
Radio/television	1977	590	276,173	32,760	7,783	3,430
	1982	570	357,420	35,555	8,738	3,005
Music stores	1977	363	106,665	14,129	3,592	2,072
	1982	321	118,880	16,353	4,026	1,734
Record shops	1977	144	41,482	4,280	1,005	655
	1982	177	61,639	6,737	1,607	812
Musical instrument shops	1977	219	65,183	9,849	2,587	1,417
	1982	144	57,241	9,616	2,419	922
Total	1977	3,171	1,428,539	198,382	45,812	20,337
	1982	2,900	1,631,427	210,801	49,488	17,937
Eating and drinking places						
Eating places	1977	8,849	2,220,260	567,499	130,378	142,198
	1982	9,345	3,354,322	863,162	195,620	165,041
Restaurants and lunchrooms	1977	4,438	1,197,242	325,100	75,239	81,720
	1982	4,507	1,746,595	479,227	109,890	91,232
Cafeterias	1977	198	58,880	14,893	3,546	3,796
	1982	129	54,766	14,090	3,358	2,766
Refreshment places	1977	3,315	774,674	170,744	38,527	45,694
	1982	3,779	1,281,013	290,098	64,706	60,058
Other eating places	1977	898	189,464	56,762	13,066	10,988
	1982	930	271,948	79,747	17,666	10,985
Drinking places (alcoholic bev.)	1977	3,737	427,126	80,494	19,633	19,552
	1982	2,915	400,304	73,806	17,377	14,603
Total	1977	12,586	2,647,386	647,993	150,011	161,750
	1982	12,260	3,754,626	936,968	212,997	179,644
Drug stores and proprietary stores						
Drug stores	1977	1,700	1,000,554	132,358	32,147	17,963
	1982	1,687	1,438,465	170,917	42,293	18,612
Proprietary stores	1977	123	44,232	3,797	899	694
	1982	135	55,965	6,107	1,400	864
Total	1977	1,823	1,044,786	136,155	33,046	18,657
	1982	1,822	1,494,430	177,024	43,693	19,476
Miscellaneous retail stores						
Liquor stores	1977	778	258,627	17,467	4,107	3,210
	1982	865	386,679	27,409	6,287	4,017

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Miscellaneous retail stores (cont.)						
Used merchandise stores	1977	439	65,351	12,780	3,047	1,876
	1982	508	105,983	22,011	4,961	2,308
Nonstore retailers	1977	744	456,689	69,956	16,968	8,095
	1982	699	462,976	72,547	17,606	6,906
Mail order houses	1977	189	139,951	13,941	3,138	2,102
	1982	207	191,251	20,989	4,985	1,995
Automatic merchandising machine operators	1977	290	196,491	34,129	8,436	3,377
	1982	237	161,296	33,377	8,446	2,816
Direct selling establishments	1977	265	120,247	21,886	5,394	2,616
	1982	255	110,429	18,181	4,175	2,095
Fuel and ice dealers	1977	402	240,507	23,068	6,051	2,440
	1982	323	358,217	29,498	7,315	2,216
Fuel oil dealers	1977	198	135,318	10,555	2,711	1,162
	1982	133	178,779	10,597	2,570	1,008
Liquefied petroleum (bottled gas) dealers	1977	181	101,840	12,235	3,267	1,230
	1982	177	177,124	18,624	4,662	1,170
Fuel and ice dealers N.E.C.	1977	23	3,349	278	73	48
	1982	13	2,314	277	83	38
Florists	1977	698	90,800	19,662	4,485	3,467
	1982	702	125,127	25,864	5,898	3,604
Cigar stores & stands	1977	69	14,784	1,455	390	307
	1982	88	19,552	2,211	513	294
Miscellaneous shopping goods stores	1977	3,274	798,196	112,502	26,266	17,767
	1982	3,597	1,201,811	165,887	38,383	20,406
Sporting goods stores & bicycle shops	1977	784	212,256	27,019	5,946	3,377
	1982	859	346,112	41,462	9,469	4,308
General line sporting goods stores	1977	387	127,406	16,513	3,792	2,038
	1982	426	215,025	25,032	5,813	2,589
Specialty line sprtg goods stores	1977	397	84,850	10,506	2,154	1,339
	1982	433	131,087	16,430	3,656	1,719
Book stores	1977	295	77,086	9,255	2,222	1,565
	1982	359	116,096	14,796	3,654	2,121
Stationery stores	1977	125	32,649	5,492	1,299	782
	1982	134	44,662	8,071	1,772	789
Jewelry stores	1977	663	190,550	32,483	7,820	4,105
	1982	683	236,706	44,352	10,886	4,025
Hobby, toy & game shops	1977	270	77,160	8,826	2,045	1,822
	1982	275	146,351	14,015	2,960	2,001
Camera & photographic supply stores	1977	118	44,399	5,477	1,324	711
	1982	130	52,482	6,066	1,472	642
Gift, novelty and souvenir shops	1977	615	81,498	12,427	2,798	2,485
	1982	759	144,438	20,522	4,353	3,470
Luggage and leather goods stores	1977	54	11,702	1,901	462	293
	1982	83	22,728	3,877	992	464
Sewing, needlework & piece goods stores	1977	350	70,896	9,622	2,350	2,627
	1982	315	92,236	12,726	2,825	2,586

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
			Miscellaneous retail stores (cont.)			
News dealers and	1977	39	9,942	1,011	239	200
newsstands	1982	47	10,245	946	223	172
Miscellaneous retail	1977	960	156,975	29,280	6,661	3,380
stores, N.E.C.	1982	1,187	234,771	43,981	10,134	4,132
Pet shops	1977	122	15,368	2,103	552	426
	1982	174	29,921	4,019	976	595
Typewriter stores	1977	27	4,968	1,245	292	116
	1982	25	4,077	1,066	237	105
Optical goods stores	1977	312	50,251	11,701	2,809	1,093
	1982	403	66,142	14,512	3,567	1,190
Other retail stores,	1977	499	86,388	14,231	3,008	1,745
N.E.C.	1982	585	134,631	24,384	5,354	2,242
Total	1977	7,403	2,091,871	287,181	68,214	40,742
	1982	8,016	2,905,361	390,354	91,320	44,055
Total retail trade	1977	48,431	31,089,750	3,720,097	850,313	523,549
	1982	46,644	38,454,235	4,446,103	1,033,342	518,423

SOURCE: Bureau of the Census, U.S. Census of Retail Trade, 1977, Area Series, Michigan (Washington, D.C.: 1979), RC77-A-23, Table 1; and Bureau of the Census, Census of Retail Trade, 1982, Area Series, Michigan (Washington, D.C.: 1985), RC82-A-23, Table 1.

a. Week including 12 March.
N.E.C.: Not elsewhere classified.
n.a.: Data not available.

TABLE XXI-2. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN AND THE UNITED STATES: 1947, 1954, 1958, 1963, 1967, 1972, 1977, AND 1982

	All establishments[a]				Establishments with payroll							
	Number (000)		Sales ($1,000,000)		Number (000)		Sales ($1,000,000)		Annual payroll ($1,000,000)		Paid employees[b] (000)	
Year	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.
1947[c]	68,756	1,771,317	5,950	130,520	n.a.	n.a.	n.a.	n.a.	663	14,186	311	7,083
1947	65,990	1,668,479	5,854	128,849	48,040	1,118,692	5,477	118,352	n.a.	n.a.	n.a.	n.a.
1954	67,995	1,721,650	8,168	169,968	50,331	1,124,040	7,776	157,933	879	18,199	325	7,124
1958	72,379	1,794,744	8,898	200,365	52,291	1,185,036	8,471	187,768	946	21,673	337	7,942
1963	69,758	1,707,931	10,855	244,202	51,568	1,206,087	10,431	233,085	1,110	27,632	340	8,410
1967	63,569	1,763,324	14,114	310,214	46,921	1,191,546	13,667	295,170	1,553	36,175	398	9,380
1972[d]	72,413	1,934,466	20,938	470,806	49,729	1,286,517	20,301	451,987	2,412	56,385	466	11,360
1972[e]	71,795	1,912,871	20,630	459,040	49,111	1,264,922	19,993	440,222	2,383	55,372	462	11,210
1972[f]	65,854	1,780,441	20,546	457,405	49,111	1,264,922	19,993	440,222	2,383	55,372	462	11,210
1977[f]	67,059	1,855,068	31,912	723,134	48,431	1,303,621	31,090	699,635	3,720	85,854	524	13,040
1982	66,642	1,923,228	39,216	1,065,917	46,644	1,330,316	38,454	1,039,029	4,446	123,619	518	14,468

SOURCE: Bureau of the Census, 1982 Census of Retail Trade, Geographic Area Series, Michigan (Washington, D.C.: 1985), RC82-A-23, Table 1; Bureau of the Census, U.S. Census of Retail Trade, 1982, Geographic Area Studies, United States (Washington, D.C.: 1985), RC82-A-52, Table 1; and similar documents for prior years.

a. Excludes establishments with no paid employment and with annual sales volume less than $2,500.
b. Week including 15 November for 1947-1963; week including 12 March for 1967.
c. Unrevised statistics. Based upon reports from establishments with sales volume of $500 or over.
d. Based on 1967 Standard Industrial Classification.
e. Based on 1972 Standard Industrial Classification, including direct selling establishments without payroll.
f. Based on 1972 Standard Industrial Classification, excluding direct selling establishments without payroll.
n.a.: not available.

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Year	All establishments		Establishments with payroll				
						Payroll ($1,000)		
		Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Alcona	1977	104	21,152	68	18,851	1,727	383	281
	1982	99	20,833	64	19,120	1,753	386	228
Alger	1977	126	23,515	85	22,114	2,099	488	398
	1982	107	23,609	71	21,462	1,989	408	261
Allegan	1977	589	172,398	372	163,[illegible]61	15,818	3,565	2,490
	1982	585	230,000	380	222,393	23,264	5,137	2,883
Alpena	1977	361	120,187	260	115,800	12,851	2,948	1,887
	1982	320	137,039	230	133,160	14,616	3,519	1,840
Antrim	1977	183	39,130	124	36,137	3,674	760	522
	1982	162	40,119	105	36,575	3,864	797	515
Arenac	1977	170	41,350	104	37,810	3,445	778	768
	1982	144	55,649	96	52,213	4,935	1,065	640
Baraga	1977	91	25,950	58	24,543	2,069	463	407
	1982	76	27,460	55	26,546	2,344	509	330
Barry	1977	262	70,972	169	67,273	6,885	1,569	1,095
	1982	273	92,102	162	88,496	9,536	2,188	1,177
Bay	1977	948	423,811	706	412,598	46,888	10,732	6,842
	1982	915	480,208	679	473,851	55,705	12,918	7,032
Benzie	1977	158	35,188	110	33,007	3,289	672	469
	1962	121	36,549	81	34,484	3,328	651	364
Berrien	1977	1,493	601,021	1,023	582,367	68,036	15,621	10,327
	1982	1,355	670,296	967	656,672	72,633	16,563	9,015
Branch	1977	373	112,248	245	107,364	10,943	2,456	1,714
	1982	303	134,614	210	130,820	12,068	2,761	1,575
Calhoun	1977	1,096	458,717	822	449,307	60,047	13,046	8,590
	1982	1,035	556,419	754	546,602	63,823	15,189	8,028
Cass	1977	323	85,190	206	80,655	8,959	1,968	1,311
	1982	285	93,131	176	89,099	8,791	2,037	1,218
Charlevoix	1977	245	57,057	168	54,108	5,758	1,241	848
	1982	232	75,374	160	72,728	8,285	1,690	948
Cheboygan	1977	300	81,488	244	79,195	9,907	1,860	1,178
	1982	317	107,966	268	105,957	13,108	2,501	1,446

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
County	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Chippewa	1977	371	96,034	256	90,243	10,349	2,305	1,551
	1982	314	104,760	230	100,552	11,434	2,522	1,496
Clare	1977	264	70,763	176	66,674	6,910	1,677	1,046
	1982	239	93,491	159	89,278	9,019	2,041	1,032
Clinton	1977	310	114,306	213	111,308	11,100	2,689	1,605
	1982	316	151,303	193	147,209	14,434	3,435	1,651
Crawford	1977	121	38,257	86	36,949	3,495	741	546
	1982	98	39,621	76	38,490	4,121	860	519
Delta	1977	417	133,249	301	127,947	12,866	2,997	2,033
	1982	391	173,480	282	168,640	16,785	3,727	2,149
Dickinson	1977	303	96,930	214	94,070	10,289	2,432	1,624
	1982	279	113,443	188	108,438	12,345	2,812	1,696
Eaton	1977	642	337,887	463	330,941	40,462	8,686	5,594
	1982	686	463,840	475	458,685	50,726	12,275	6,410
Emmet	1977	380	120,378	287	116,883	14,600	3,195	2,081
	1982	345	149,420	274	146,657	17,862	3,852	2,059
Genesee	1977	2,993	1,817,915	2,305	1,789,955	208,467	46,056	27,612
	1982	2,915	2,043,964	2,180	2,020,668	228,629	53,397	25,799
Gladwin	1977	160	45,064	114	42,533	4,097	911	663
	1982	175	57,340	112	54,766	5,213	1,156	697
Gogebic	1977	272	60,740	174	57,652	5,981	1,502	1,141
	1982	222	74,306	163	70,860	7,705	1,832	1,173
Grand Traverse	1977	626	235,242	453	228,152	29,767	6,872	4,210
	1982	705	383,502	510	375,552	44,512	10,069	5,171
Gratiot	1977	365	115,007	256	110,234	12,512	2,930	1,944
	1982	320	145,926	214	139,689	14,630	3,474	1,846
Hillsdale	1977	345	96,388	204	89,830	9,232	2,108	1,382
	1982	318	116,421	209	112,040	12,256	2,881	1,405
Houghton	1977	375	100,858	256	95,464	10,336	2,364	1,796
	1982	334	124,060	240	118,529	13,760	3,136	1,951
Huron	1977	444	101,580	286	94,370	9,515	2,221	1,567
	1982	386	134,626	251	127,364	12,833	3,039	1,700

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		All establishment		Establishments with payroll				
						Payroll ($1,000)		
County	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Ingham	1977	1,775	1,000,941	1,321	984,425	125,203	27,689	18,172
	1982	1,801	1,274,798	1,325	1,260,247	152,489	36,214	19,359
Ionia	1977	367	139,309	266	134,797	14,679	2,904	2,087
	1982	362	161,887	247	155,880	15,635	3,502	1,948
Iosco	1977	348	83,191	235	79,553	8,664	1,838	1,276
	1982	289	101,376	197	97,515	10,060	2,147	1,258
Iron	1977	208	45,716	127	43,538	3,705	862	767
	1982	154	41,928	105	39,977	4,223	956	665
Isabella	1977	369	146,264	281	142,021	16,674	3,837	2,805
	1982	372	195,101	272	189,938	21,276	5,004	3,007
Jackson	1977	1,015	482,474	756	471,943	62,152	13,755	8,686
	1982	1,006	593,765	743	583,829	59,642	16,272	8,235
Kalamazoo	1977	1,500	798,370	1,163	786,336	105,752	23,497	15,278
	1982	1,642	1,109,713	1,218	1,097,380	131,850	30,280	16,094
Kalkaska	1977	97	33,591	61	31,423	3,173	687	450
	1982	91	46,154	53	43,962	3,796	848	456
Kent	1977	3,172	1,733,723	2,272	1,696,483	222,748	49,339	32,005
	1982	3,229	2,334,642	2,278	2,300,773	278,261	65,776	32,636
Keweenaw	1977	45	3,688	26	2,964	335	53	49
	1982	27	3,594	21	3,380	353	31	27
Lake	1977	98	12,796	58	10,889	1,171	249	222
	1982	62	16,428	46	14,615	1,503	364	209
Lapeer	1977	374	159,360	268	153,644	14,945	3,555	2,273
	1982	427	197,916	260	190,471	18,801	4,346	2,245
Leelanau	1977	179	26,693	114	24,518	2,560	538	416
	1982	142	36,782	96	35,194	4,210	783	468
Lenawee	1977	763	303,537	546	294,213	30,921	6,957	4,698
	1982	701	326,283	499	318,976	36,892	8,482	4,672
Livingston	1977	557	225,970	381	218,083	22,643	5,102	3,425
	1982	555	308,903	354	300,576	33,269	7,496	3,998
Luce	1977	78	22,409	59	21,468	2,043	485	304
	1982	59	24,231	42	23,193	2,497	531	336

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Year	All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
		Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Mackinac	1977	219	35,823	172	33,767	4,053	746	550
	1982	214	49,225	164	47,536	5,605	1,030	693
Macomb	1977	4,224	2,702,797	3,093	2,648,380	300,874	69,983	40,639
	1982	4,372	3,578,552	3,217	3,527,802	383,687	88,871	42,879
Manistee	1977	250	63,081	175	60,500	6,224	1,364	998
	1982	233	81,595	171	78,324	8,224	1,829	990
Marquette	1977	597	212,969	457	205,112	23,975	5,456	4,206
	1982	524	254,327	404	249,705	29,053	6,805	4,100
Mason	1977	257	81,970	183	78,422	8,335	1,755	1,412
	1982	242	93,533	182	89,106	9,749	2,105	1,347
Mecosta	1977	297	90,783	200	86,339	9,588	2,230	1,602
	1982	272	126,962	196	123,932	12,782	3,000	1,862
Menominee	1977	234	64,207	140	59,177	5,680	1,344	1,062
	1982	176	62,540	116	58,074	6,534	1,452	914
Midland	1977	467	212,662	339	207,995	23,756	5,643	3,336
	1982	481	289,628	344	284,939	32,909	7,716	3,898
Missaukee	1977	80	18,644	55	17,521	1,538	321	253
	1982	84	25,698	46	24,299	2,289	493	312
Monroe	1977	713	331,270	516	319,983	33,304	7,590	4,562
	1982	705	385,660	468	375,718	41,254	9,444	4,606
Montcalm	1977	339	146,166	274	139,938	14,832	3,036	2,041
	1982	372	183,829	255	178,415	16,357	3,780	1,980
Montmorency	1977	101	21,599	65	19,342	1,943	430	301
	1982	79	24,757	57	22,686	2,285	478	295
Muskegon	1977	1,109	478,025	808	466,523	57,378	12,258	8,261
	1982	1,032	589,446	781	577,513	66,055	15,087	8,193
Newaygo	1977	253	67,034	187	64,170	6,340	1,408	990
	1982	237	90,053	161	86,402	9,193	2,026	1,134
Oakland	1977	7,741	4,528,678	5,520	4,433,867	544,196	126,453	73,939
	1982	8,188	5,975,958	5,878	5,888,988	704,966	165,442	77,579
Oceana	1977	209	44,700	134	41,588	4,113	877	672
	1982	197	53,770	125	50,348	5,356	1,230	782

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
County	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Ogemaw	1977	198	55,396	136	52,537	5,211	1,173	736
	1982	194	79,365	139	77,029	7,026	1,554	821
Ontonagon	1977	124	27,758	73	24,617	2,253	520	451
	1982	103	33,360	75	31,237	2,940	684	459
Osceola	1977	193	36,530	123	32,646	3,092	688	502
	1982	169	56,654	109	52,287	4,641	1,025	601
Oscoda	1977	86	13,550	56	12,001	1,351	322	268
	1982	90	23,881	58	22,946	2,167	465	287
Otsego	1977	204	63,476	144	60,154	6,765	1,468	1,110
	1982	187	83,843	138	80,703	9,718	2,190	1,096
Ottawa	1977	1,003	408,594	699	394,810	49,545	10,254	7,315
	1982	1,070	613,340	747	600,474	65,787	15,377	8,601
Presque Isle	1977	152	35,706	100	32,400	3,110	706	518
	1982	122	39,040	78	36,205	3,488	766	479
Roscommon	1977	305	61,482	202	57,190	6,462	1,301	966
	1982	278	86,186	187	81,577	7,796	1,650	924
Saginaw	1977	1,637	848,317	1,239	831,264	102,468	23,730	14,895
	1982	1,581	1,080,754	1,177	1,065,181	122,516	28,027	14,243
St. Clair	1977	1,008	394,258	685	379,301	45,474	10,420	6,804
	1982	938	479,550	653	465,665	57,602	13,384	6,854
St. Joseph	1977	498	160,341	342	154,621	16,176	3,789	2,408
	1983	444	206,003	308	199,712	19,326	4,500	2,306
Sanilac	1977	402	95,154	239	86,277	7,851	1,776	1,145
	1982	342	115,718	211	106,830	10,336	2,307	1,252
Schoolcraft	1977	129	26,982	95	25,459	2,611	570	430
	1982	101	30,505	73	28,448	3,155	704	432
Shiawassee	1977	504	203,312	358	197,371	19,917	4,852	3,022
	1982	475	219,929	332	215,398	22,338	5,297	2,802
Tuscola	1977	470	128,591	312	121,225	11,798	2,832	1,834
	1982	423	163,162	284	155,516	15,306	3,573	1,872
Van Buren	1977	522	159,370	320	152,042	15,700	3,444	2,206
	1982	480	207,595	314	200,961	20,287	4,605	2,391

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
County	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Washtenaw	1977	1,671	981,126	1,242	962,364	123,545	27,488	17,148
	1982	1,786	1,320,397	1,324	1,303,688	151,454	37,585	18,767
Wayne	1977	14,373	7,834,951	10,804	7,661,296	940,110	222,140	126,982
	1982	12,885	8,463,535	9,701	8,304,646	1,000,444	234,190	111,344
Wexford	1977	275	109,048	202	105,258	10,788	2,364	1,550
	1982	274	122,804	201	118,444	12,415	2,812	1,561
Total	1977	67,059	31,912,356	48,431	31,089,750	3,720,097	850,313	523,549
	1982	64,642	39,215,526	46,644	38,454,235	4,446,103	1,033,342	518,423

SOURCE: Bureau of the Census, *1977 Census of Retail Trade, Area Series, Michigan*, (Washington, D.C.: 1979), RC77-A-23, Table 7; and Bureau of the Census, *1982 Census of Retail Trade, Michigan*, (Washington, D.C.: 1983), RC82-A-23, Table 8.

a. Pay period including 12 March.

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Adrian	1977	237	126,558	189	124,898	15,039	3,408	2,376
	1982	254	166,383	196	164,529	18,957	4,473	2,504
Albion	1977	104	37,508	87	37,026	4,349	1,035	710
	1982	104	39,133	80	38,415	4,742	1,129	674
Algonac	1977	50	15,662	33	14,966	1,823	414	270
	1982	58	23,250	32	22,181	2,394	531	262
Allegan	1977	101	39,324	66	37,901	3,467	814	505
	1982	95	32,594	56	31,705	3,321	810	399
Allen Park	1977	221	97,285	167	94,301	11,861	2,899	2,142
	1982	242	123,984	179	121,590	14,153	3,300	1,975
Alma	1977	146	61,909	116	60,179	7,093	1,634	1,062
	1982	139	73,615	107	71,393	7,915	1,908	986
Alpena	1977	254	100,442	197	97,941	11,264	2,522	1,657
	1982	258	95,643	185	92,692	10,754	2,652	1,438
Ann Arbor	1977	824	499,241	646	493,478	66,803	15,269	9,844
	1982	889	676,848	707	670,817	91,409	21,541	11,026
Bad Axe	1977	69	29,107	54	28,142	3,150	711	443
	1982	90	52,021	63	50,346	5,323	1,301	690
Battle Creek	1977	453	197,715	336	194,235	25,398	5,971	3,494
	1982	353	195,377	258	192,164	24,531	5,953	2,982
Bay City	1977	506	214,201	401	208,502	25,008	5,887	3,705
	1982	460	224,981	353	221,934	27,709	6,570	3,437
Belding	1977	44	22,446	38	22,210	2,450	511	381
	1982	51	22,906	34	21,775	2,812	603	280
Belleville	1977	95	30,562	66	29,547	3,386	769	569
	1982	62	34,713	46	34,072	3,310	832	400
Benton Harbor	1977	206	104,068	135	101,518	11,893	2,834	1,775
	1982	222	166,185	153	163,946	16,617	3,876	1,897
Berkley	1977	138	48,158	107	46,398	7,347	1,698	1,158
	1982	157	65,428	124	63,491	9,351	2,294	1,336
Bessemer	1977	44	11,537	31	11,165	1,028	253	216
	1982	28	14,704	18	14,074	1,405	337	170

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	employees 12 March[a]
Beverly Hills	1977	50	14,003	19	12,837	1,938	471	221
	1982	50	16,335	21	15,576	2,637	578	217
Big Rapids	1977	126	47,270	104	46,245	5,749	1,391	1,002
	1982	144	79,192	111	78,291	8,622	2,107	1,298
Birmingham	1977	392	211,805	316	208,856	28,721	6,874	3,902
	1982	382	243,196	295	240,534	34,432	8,125	3,798
Blissfield	1977	51	16,447	42	15,694	1,343	280	252
	1982	39	10,640	29	10,315	1,555	374	239
Bloomfield Hills	1977	62	24,442	43	23,639	3,629	822	526
	1982	68	43,954	49	43,631	6,739	1,584	773
Boyne City	1977	72	18,115	56	17,326	1,844	412	290
	1982	50	17,586	36	16,844	1,907	421	256
Brighton	1977	118	43,066	69	41,589	4,201	954	598
	1982	201	127,474	123	124,577	13,222	2,837	1,551
Buchanan	1977	52	19,787	39	19,549	1,903	439	265
	1982	66	23,546	47	23,024	2,611	587	298
Burton	1977	217	190,694	178	189,547	26,287	5,003	3,191
	1982	197	182,643	166	181,861	23,235	5,503	2,796
Cadillac	1977	181	73,337	142	71,900	7,486	1,645	1,043
	1982	195	89,903	147	87,118	9,584	2,216	1,216
Carleton[b]	1982	29	11,385	15	10,493	1,125	227	125
Caro	1977	97	36,276	79	35,455	3,808	874	543
	1982	104	41,623	80	40,249	4,580	1,051	595
Cedar Springs[b]	1982	47	27,991	28	27,352	2,225	503	246
Center Line	1977	80	93,756	61	92,580	8,302	1,840	877
	1982	75	100,895	60	100,073	10,353	2,410	884
Charlevoix	1977	100	26,424	68	25,633	2,799	615	396
	1982	94	31,968	77	31,468	3,792	763	430
Charlotte	1977	137	52,563	104	51,445	5,775	1,422	953
	1982	125	62,482	94	61,605	6,468	1,543	779
Cheboygan	1977	138	41,935	113	40,508	4,575	924	618
	1982	183	63,681	154	62,478	7,906	1,704	950

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Chelsea	1977	62	38,684	52	37,589	3,660	932	456
	1982	68	41,610	49	41,069	4,880	1,087	486
Chesaning	1977	51	29,046	36	28,581	2,303	509	339
	1982	57	39,933	45	38,997	3,759	899	502
Clare	1977	103	39,691	76	38,721	4,013	1,028	556
	1982	90	(D)	65	(D)	(D)	(D)	(D)
Clawson	1977	116	47,347	86	46,334	6,493	1,577	1,018
	1982	103	50,384	74	49,109	6,646	1,588	882
Coldwater	1977	184	66,835	130	64,963	7,116	1,559	1,073
	1982	179	101,992	130	99,595	9,012	2,092	1,140
Coppersville[b]	1982	38	8,336	17	7,630	572	120	66
Corunna	1977	39	22,092	22	21,081	2,368	579	341
	1982	36	18,138	27	17,918	2,001	473	284
Davison	1977	64	40,965	49	40,538	3,765	882	485
	1982	106	45,243	56	44,397	5,436	1,266	592
Dearborn	1977	908	778,779	734	770,119	93,367	21,548	12,196
	1982	898	860,553	742	852,227	108,896	25,567	12,117
De Witt[b]	1982	41	13,207	14	12,496	1,144	255	143
Dearborn Heights	1977	415	173,825	311	167,662	20,471	4,941	3,449
	1982	408	214,163	307	209,166	26,666	5,956	3,321
Detroit	1977	6,914	2,968,783	5,142	2,878,924	357,541	86,842	48,457
	1982	5,431	2,884,011	4,125	2,809,113	345,013	80,806	37,821
Dowagiac	1977	145	35,669	90	33,301	3,795	791	495
	1982	105	44,087	70	42,900	3,999	915	512
Durand	1977	63	32,305	46	31,813	2,577	558	350
	1982	69	35,746	54	35,438	3,379	744	356
East Detroit	1977	290	206,395	213	201,410	18,969	4,563	2,400
	1982	281	261,025	213	257,261	23,801	5,485	2,493
East Grand Rapids	1977	47	18,423	30	17,685	2,546	576	442
	1982	65	30,815	30	30,189	4,078	968	465
East Lansing	1977	202	97,140	158	95,829	13,558	3,167	2,698
	1982	205	126,289	157	125,436	18,818	4,722	3,223

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
East Tawas[b]	1977	62	17,160	45	16,730	2,217	451	322
Eaton Rapids	1977	69	25,335	47	24,650	2,326	501	319
	1982	72	35,135	42	34,642	3,103	731	345
Ecorse	1977	92	21,337	63	20,125	3,028	740	457
	1982	65	14,556	48	13,550	2,101	535	414
Escanaba	1977	234	104,266	190	102,340	10,693	2,524	1,661
	1982	224	132,380	186	130,800	13,358	2,973	1,663
Essexville	1977	63	12,265	48	11,938	1,414	348	332
	1982	52	29,734	37	29,159	3,081	688	627
Farmington	1977	199	118,770	151	116,902	13,413	3,210	1,724
	1982	237	163,558	199	162,155	18,191	4,213	2,208
Fenton	1977	143	96,724	103	95,029	9,129	2,009	1,135
	1982	160	118,152	99	116,545	10,216	2,344	1,059
Ferndale	1977	220	133,478	162	130,383	13,112	3,334	1,463
	1982	175	135,273	131	133,132	15,622	3,914	1,325
Flat Rock	1977	71	30,072	54	29,379	3,410	791	526
	1982	69	43,352	51	42,388	5,292	1,267	622
Flint	1977	1,421	688,143	1,147	676,353	82,033	18,918	11,450
	1982	1,293	858,255	1,070	848,861	99,744	23,390	11,197
Flushing	1977	104	49,584	71	48,207	4,847	1,263	626
	1982	128	71,995	76	70,736	7,811	1,957	693
Frankenmuth	1977	79	46,755	64	46,059	6,952	1,620	960
	1982	78	65,291	61	65,063	10,301	2,273	1,190
Franklin	1977	39	6,698	28	6,401	1,002	211	163
	1982	24	5,774	11	5,360	735	171	101
Fraser	1977	110	34,713	65	31,949	3,934	972	598
	1982	116	60,814	75	58,792	7,152	1,702	1,056
Fremont	1977	91	32,144	71	31,232	3,114	703	426
	1982	96	50,557	72	49,982	5,283	1,170	588
Garden City	1977	201	130,985	148	128,519	14,389	3,387	1,938
	1982	216	139,302	150	135,425	14,925	3,619	1,697

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees[a] 12 March
Gaylord	1977	129	48,227	101	46,765	5,128	1,085	848
	1982	136	60,572	107	59,151	7,794	1,784	915
Gibraltar	1977	15	(D)	9	(D)	(D)	(D)	(D)
	1982	16	3,898	11	3,688	484	110	90
Gladstone	1977	78	16,282	54	14,897	1,347	301	220
	1982	61	21,588	42	20,601	1,806	408	255
Grand Blanc	1977	97	46,954	64	45,866	6,273	1,412	854
	1982	124	51,960	83	50,381	6,421	1,448	765
Grand Haven	1977	171	76,007	125	73,531	10,110	2,070	1,339
	1982	194	115,795	153	114,064	12,795	2,919	1,800
Grand Ledge	1977	100	32,001	57	29,904	2,956	688	423
	1982	91	18,803	45	17,556	1,891	445	279
Grand Rapids	1977	1,512	756,703	1,108	739,445	103,040	23,589	15,104
	1982	1,395	873,016	1,020	858,757	109,960	25,893	12,797
Grandville	1977	95	64,682	66	63,353	6,964	1,543	926
	1982	136	100,920	101	99,478	11,983	2,575	1,319
Greenville	1977	94	45,837	70	44,903	6,171	1,120	733
	1982	114	73,678	78	72,424	7,146	1,648	864
Grosse Pointe	1977	93	50,474	69	49,974	7,719	1,738	1,057
	1982	89	71,843	72	71,217	10,545	2,434	1,102
Grosse Pte. Farms	1977	88	46,501	59	45,802	6,181	1,504	831
	1982	67	42,760	50	42,259	6,120	1,357	551
Grosse Pte. Park	1977	71	32,389	45	31,318	3,463	908	435
	1982	66	33,610	50	32,858	3,552	756	458
Grosse Pte.	1977	6	(D)	2	(D)	(D)	(D)	(D)
Shores	1982	7	1,208	5	(D)	(D)	(D)	(D)
Grosse Pte. Woods	1977	145	48,103	104	45,579	6,271	1,523	966
	1982	157	63,584	107	62,162	8,502	1,938	1,073
Hamtramck	1977	261	72,112	188	67,370	7,882	1,894	1,105
	1982	201	65,316	145	62,717	7,499	1,761	790
Hancock	1977	73	25,562	51	24,874	2,712	640	453
	1982	63	28,721	49	28,262	3,001	713	405

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

City	Year	All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees[a] 12 March
		Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Harper Woods	1977	177	224,854	147	223,766	27,639	6,842	3,766
	1982	177	235,289	153	234,429	29,130	6,875	3,265
Hartford[c]	1977	38	13,174	25	12,881	1,288	293	179
Hastings	1977	119	44,452	79	42,776	4,378	980	636
	1982	132	57,306	81	56,067	6,095	1,414	723
Hazel Park	1977	162	59,928	108	57,308	8,043	1,715	1,167
	1982	138	68,089	99	66,554	8,493	1,981	1,022
Highland Park	1977	183	112,706	145	110,031	15,656	3,697	1,919
	1982	144	96,433	117	94,938	11,758	3,021	1,059
Hillsdale	1977	132	60,430	96	58,822	6,237	1,411	907
	1982	132	74,633	99	72,968	8,290	1,955	913
Holland	1977	350	127,739	255	124,155	13,009	3,042	2,257
	1982	418	224,699	303	(D)	(D)	(D)	(D)
Holly	1977	63	18,219	42	17,802	1,600	352	253
	1982	61	27,670	35	27,066	2,752	632	311
Houghton	1977	73	25,970	57	25,230	3,134	727	494
	1982	77	38,084	68	37,057	4,955	1,143	793
Howell	1977	117	52,614	86	51,861	5,218	1,167	776
	1982	157	56,134	88	54,051	6,294	1,526	788
Hudson	1977	54	12,237	37	11,534	1,150	239	178
	1982	42	15,189	27	14,773	1,858	429	222
Hudsonville	1977	34	9,622	17	9,163	928	192	146
	1982	36	17,264	26	16,923	1,733	379	212
Huntington Woods	1977	32	4,630	10	3,859	472	166	67
	1982	27	6,605	10	6,227	750	156	85
Inkster	1977	135	63,639	94	61,472	7,577	1,755	1,011
	1982	105	62,152	84	61,545	7,152	1,728	841
Ionia	1977	112	40,966	90	40,333	4,126	926	681
	1982	129	50,195	102	48,632	5,050	1,158	702
Iron Mountain	1977	171	52,464	129	50,984	6,368	1,526	957
	1982	125	52,134	95	50,368	6,396	1,446	879
Iron River[c]	1977	104	26,968	72	26,109	2,544	581	491

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees[a] 12 March
Ironwood	1977	142	40,812	105	39,615	4,252	1,087	778
	1982	131	49,169	105	47,741	5,404	1,279	849
Ishpeming	1977	103	28,273	78	27,122	2,578	631	494
	1982	95	41,110	73	39,951	3,821	963	555
Ithaca	1977	55	15,753	41	15,142	1,684	423	255
	1982	55	26,351	36	25,151	2,405	548	259
Jackson	1977	457	202,542	368	199,420	26,951	6,531	3,947
	1982	436	242,093	340	238,135	31,325	7,430	3,599
Kalamazoo	1977	713	397,155	575	392,238	53,158	12,623	8,076
	1982	678	457,562	542	453,613	60,267	14,058	7,355
Keego Harbor	1977	37	6,213	29	5,852	716	164	140
	1982	39	7,502	26	6,864	950	282	151
Kentwood	1977	180	116,380	134	114,979	16,546	3,598	2,478
	1982	332	308,218	247	305,477	38,463	8,953	4,846
Kingsford	1977	44	28,331	29	28,049	2,601	587	449
	1982	69	40,111	45	39,505	4,028	951	582
Lake Orion	1977	77	24,614	42	23,234	2,304	576	386
	1982	50	30,887	30	30,464	3,367	740	416
L'Anse	1977	57	19,421	43	18,839	1,572	344	327
	1982	46	18,813	34	18,310	1,593	344	228
Lansing	1977	984	628,893	747	615,994	76,489	17,259	10,526
	1982	911	745,087	706	737,843	87,645	20,786	10,223
Lapeer	1977	131	94,721	103	97,716	9,293	2,253	1,356
	1982	170	114,390	118	111,478	11,888	2,832	1,451
Lathrup Village	1977	187	76,237	122	73,591	8,566	1,644	927
	1982	91	42,766	70	41,900	6,480	1,385	781
Laurim	1977	39	11,606	29	11,162	958	233	168
	1982	29	7,071	17	6,848	862	164	88
Lincoln Park	1977	332	237,781	284	234,795	32,764	7,528	4,176
	1982	309	226,980	253	223,739	29,778	7,076	3,391
Livonia	1977	798	616,067	613	608,574	77,874	17,720	10,000
	1982	882	767,389	660	757,150	86,915	19,778	9,099

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees[a]
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	12 March
Lowell	1977	51	29,583	36	28,939	2,311	507	302
	1982	63	40,365	39	39,731	2,924	717	313
Ludington	1977	149	35,016	110	33,436	3,922	900	711
	1982	145	47,189	111	44,782	4,848	1,104	695
Madison Heights	1977	235	110,163	172	107,216	14,153	3,262	2,244
	1982	256	189,674	193	186,766	23,698	5,513	2,829
Manistee	1977	141	37,144	103	35,983	3,843	844	627
	1982	136	48,122	105	46,647	5,168	1,192	657
Manistique	1977	82	23,440	67	22,933	2,284	508	368
	1982	101	30,505	73	28,448	3,155	704	432
Marine City	1977	79	26,262	56	24,577	2,431	546	395
	1982	83	32,473	59	31,157	3,465	843	559
Marquette	1977	281	109,182	238	107,009	13,861	3,171	2,187
	1982	265	133,759	216	132,131	17,139	4,058	2,389
Marysville	1977	58	18,308	43	17,996	1,875	483	397
	1982	49	19,967	40	19,513	2,593	593	395
Marshall	1977	152	47,841	111	46,785	5,251	1,170	927
	1982	142	56,309	102	54,568	6,168	1,432	890
Mason	1977	97	38,963	68	37,325	3,564	823	595
	1982	63	37,928	49	37,232	3,383	797	439
Melvindale	1977	71	45,208	54	44,078	5,649	1,318	918
	1982	65	49,348	49	47,664	6,202	1,424	722
Menominee	1977	125	50,533	85	48,596	4,871	1,150	852
	1982	101	50,677	71	48,808	5,378	1,185	722
Midland	1977	369	(D)	278	(D)	(D)	(D)	(D)
	1982	400	(D)	298	(D)	(D)	(D)	(D)
Milan	1977	67	25,698	40	(D)	(D)	(D)	(D)
	1982	51	(D)	33	20,570	2,395	547	236
Milford	1977	82	32,604	48	31,645	2,914	658	367
	1982	66	43,354	47	42,685	4,552	1,029	470
Monroe	1977	246	92,173	186	89,146	10,037	2,237	1,466
	1982	326	191,089	234	186,316	20,832	4,862	2,550

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Mount Clemens	1977	273	139,325	182	135,288	15,762	3,814	2,081
	1982	253	118,141	172	114,934	13,123	3,190	1,580
Mount Morris	1977	70	29,400	51	28,248	2,525	548	305
	1982	79	33,773	49	33,240	3,486	813	428
Mount Pleasant	1977	257	114,980	211	113,136	3,856	3,172	2,333
	1982	276	155,638	214	153,064	18,189	4,268	2,671
Muskegon	1977	372	164,636	295	161,928	20,097	4,539	3,063
	1982	375	203,073	303	199,344	24,023	5,653	3,015
Muskegon Heights	1977	126	31,244	101	30,242	3,897	892	615
	1982	105	90,050	81	88,628	9,934	2,260	1,018
Munising	1977	76	17,972	55	17,315	1,735	404	309
	1982	48	16,485	40	15,765	1,366	287	173
Negaunee	1977	60	12,466	41	11,555	1,165	275	341
	1982	47	17,616	35	17,114	1,691	369	308
New Baltimore	1977	61	21,877	41	20,969	2,221	492	311
	1982	64	36,308	42	35,237	3,521	767	404
New Buffalo	1977	64	11,172	39	10,522	1,455	354	297
	1982	47	10,589	31	9,938	1,417	316	199
Niles	1977	188	65,340	130	63,481	7,916	1,892	1,276
	1982	219	93,157	151	90,894	10,953	2,525	1,390
North Muskegon	1977	43	19,094	31	18,905	2,199	516	270
	1982	60	26,107	39	25,540	2,838	636	373
Northville	1977	109	42,915	79	42,122	4,738	1,145	883
	1982	118	57,327	73	56,365	6,257	1,739	797
Norton Shores	1977	126	107,891	96	106,928	15,140	2,730	1,664
	1982	143	83,657	113	82,858	10,246	2,230	1,318
Norway	1977	43	10,153	32	9,824	830	190	123
	1982	28	10,306	21	9,740	976	228	128
Novi	1977	139	72,295	102	69,995	8,089	861	509
	1982	273	264,890	216	263,009	30,530	7,094	3,820
Oak Park	1977	360	158,917	209	153,171	20,279	4,810	2,492
	1982	290	176,160	189	172,616	20,200	5,021	1,845

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Otsego	1977	54	12,158	33	11,626	1,343	298	229
	1982	54	16,707	35	16,216	1,913	447	246
Owosso	1977	198	61,294	154	60,023	7,307	1,810	1,228
	1982	214	96,286	156	94,372	10,503	2,335	1,412
Oxford	1977	52	12,726	36	11,919	1,424	295	244
	1982	59	17,987	43	17,478	2,032	482	266
Paw Paw	1977	84	30,094	60	29,596	2,858	600	453
	1982	73	43,422	51	42,342	4,409	1,017	461
Petoskey	1977	228	98,791	191	97,094	11,604	2,569	1,675
	1982	212	111,042	179	109,466	12,861	2,867	1,430
Plainwell	1977	84	25,839	51	23,767	2,310	583	301
	1982	90	44,871	62	44,077	4,415	1,029	549
Pleasant Ridge	1977	16	3,281	11	3,103	378	107	98
	1982	19	4,492	10	4,338	429	101	61
Plymouth	1977	184	86,803	132	84,529	9,042	2,002	1,136
	1982	244	145,262	163	142,664	15,204	3,508	1,598
Pontiac	1977	439	305,080	371	301,297	35,947	8,351	4,468
	1982	453	380,765	364	376,340	41,350	9,929	4,330
Portage	1977	294	176,371	225	173,659	24,818	4,911	3,212
	1982	419	321,575	320	317,601	35,858	8,203	4,394
Port Huron	1977	407	178,775	310	175,282	22,760	5,377	3,480
	1982	425	243,688	313	237,728	30,529	7,208	3,667
Portland	1977	57	17,586	33	16,704	2,193	390	328
	1982	58	24,159	26	22,960	2,313	521	331
Richmond	1977	77	38,256	51	37,113	2,953	780	410
	1982	61	44,840	47	43,716	4,622	1,128	556
River Rouge	1977	84	19,231	65	18,345	1,912	448	325
	1982	79	18,982	59	17,181	1,993	487	303
Riverview	1977	105	42,339	75	41,495	5,882	1,245	982
	1982	78	49,799	63	49,103	5,702	1,440	807
Rochester	1977	179	83,245	140	81,555	10,030	2,480	1,783
	1982	196	84,883	141	82,911	12,305	2,958	1,550

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees[a] 12 March
Rockwood	1977	23	13,400	18	13,163	1,008	254	114
	1982	16	17,010	11	16,481	1,325	316	103
Rogers City	1977	75	19,836	56	18,349	1,707	404	320
	1982	56	21,930	42	21,067	2,188	512	327
Romeo	1977	67	16,744	42	15,524	1,316	290	237
	1982	81	37,205	54	36,389	2,901	549	320
Romulus	1977	144	57,468	97	55,019	10,018	2,383	1,407
	1982	113	72,962	78	71,140	10,549	2,547	1,370
Rossevelt Park	1977	33	22,888	25	22,623	3,332	785	614
	1982	30	23,066	27	22,876	3,734	875	577
Roseville	1977	370	303,646	296	299,605	38,945	9,020	5,505
	1982	413	422,426	341	419,091	47,567	11,253	5,234
Royal Oak	1977	578	338,555	416	330,972	40,958	9,668	5,308
	1982	475	372,468	334	366,824	41,840	9,971	4,112
Saginaw	1977	645	254,217	484	247,136	32,916	7,747	4,642
	1982	541	257,618	423	252,199	31,997	7,261	3,538
St. Clair	1977	66	24,574	42	23,325	3,036	651	400
	1982	86	41,904	59	40,972	5,216	1,167	569
St. Clair Shores	1977	614	245,257	422	237,914	28,867	6,714	4,077
	1982	478	264,476	339	258,518	31,510	7,180	3,563
St. Ignace	1977	70	15,416	56	14,923	1,760	362	227
	1982	62	17,224	52	17,087	1,861	360	213
St. Johns	1977	111	57,977	81	57,067	6,108	1,472	882
	1982	104	64,337	74	63,592	7,145	1,764	794
St. Joseph	1977	165	74,047	126	72,308	9,858	2,325	1,392
	1982	194	55,156	132	53,515	7,376	1,661	1,016
St. Louis	1977	66	12,111	42	11,340	1,329	298	236
	1982	37	13,677	22	12,772	1,193	272	186
Saline	1977	66	23,669	43	23,001	2,710	605	433
	1982	57	31,468	43	31,062	3,686	808	442
Sault Ste. Marie	1977	215	72,234	165	69,108	8,065	1,841	1,163
	1982	181	77,259	146	75,485	8,991	2,010	1,152

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	employees[a] 12 March
Southfield	1977	983	778,169	731	767,267	97,704	23,801	14,315
	1982	1,169	971,961	887	961,156	118,455	27,845	12,949
Southgate	1977	231	281,200	200	279,302	29,523	7,117	3,538
	1982	242	285,194	194	283,155	29,466	6,995	2,889
South Haven	1977	119	48,481	87	47,567	5,918	1,361	721
	1982	98	60,272	81	59,755	6,277	1,421	725
South Lyon	1977	57	18,437	31	17,256	1,990	413	285
	1982	51	17,251	33	15,973	1,733	370	280
Sparta	1977	55	14,326	38	13,849	1,159	286	196
	1982	46	17,752	31	17,165	1,733	445	236
Springfield	1977	33	8,970	24	8,841	1,358	332	230
	1982	39	21,722	32	21,497	2,233	568	190
Springlake	1977	54	9,354	28	8,138	815	190	173
	1982	57	17,883	34	16,766	1,439	272	190
Sterling Heights	1977	423	373,721	324	370,143	41,061	9,231	5,453
	1982	574	666,363	425	662,260	68,010	15,675	7,728
Sturgis	1977	151	61,069	108	59,274	6,444	1,465	945
	1982	161	94,639	121	92,881	9,121	2,074	1,093
Swartz Creek	1977	43	8,557	21	7,830	967	196	161
	1982	65	22,952	27	21,665	2,015	465	219
Taylor	1977	425	345,266	346	341,901	39,503	8,691	5,232
	1982	462	450,187	359	447,090	49,742	11,445	5,737
Tecumseh	1977	102	37,433	78	36,140	3,957	852	557
	1982	108	44,969	77	43,804	5,202	1,145	737
Three Rivers	1977	136	44,717	104	43,872	4,745	1,169	641
	1982	120	59,809	89	58,688	5,907	1,436	685
Traverse City	1977	429	156,105	319	151,997	22,089	5,245	3,169
	1982	522	293,574	381	287,850	34,831	7,959	4,038
Trenton	1977	150	65,397	112	64,132	6,975	1,569	1,093
	1982	143	55,299	96	53,816	6,140	1,532	807
Troy	1977	486	568,439	367	562,762	67,574	15,711	8,427
	1982	664	780,303	498	773,247	90,859	21,323	9,432

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Utica	1977	115	46,196	90	44,976	5,306	1,214	769
	1982	107	54,846	63	53,756	5,097	1,241	640
Vassar	1977	75	23,534	48	22,528	2,080	477	309
	1982	58	31,262	34	30,018	2,438	573	257
Wakefield	1977	34	4,210	22	3,861	402	104	101
	1982	29	5,324	23	5,067	410	98	88
Walker	1977	125	145,496	97	144,086	20,006	3,686	2,209
	1982	116	172,728	85	171,799	17,757	4,517	2,058
Walled Lake	1977	78	42,278	61	41,256	4,676	1,131	833
	1982	66	40,454	46	39,008	4,376	1,061	567
Warren	1977	961	702,221	719	689,662	82,384	19,267	11,078
	1982	943	885,748	730	873,521	99,984	23,058	11,216
Wayne	1977	168	133,202	140	131,683	13,109	3,206	1,520
	1982	120	83,683	93	81,774	9,331	2,161	999
Westland	1977	434	340,877	323	335,955	37,549	9,022	5,299
	1982	446	418,500	344	413,111	47,362	11,050	5,430
Whitehall	1977	62	15,883	42	15,091	1,723	388	306
	1982	54	23,525	40	23,014	2,244	473	306
Williamston	1977	49	9,645	31	9,265	888	212	144
	1982	54	17,872	26	17,469	2,186	480	287
Wixom	1977	22	6,715	15	6,231	643	171	89
	1982	18	6,717	13	6,423	460	113	94
Woodhaven	1977	43	61,906	37	61,741	7,193	1,589	1,007
	1982	61	74,959	49	74,426	9,531	2,121	1,060
Wolverine Lake	1977	11	978	3	566	39	9	9
	1982	11	(D)	(D)	(D)	(D)	(D)	(D)
Wyandotte	1977	269	70,263	188	66,205	8,634	2,135	1,326
	1982	262	109,038	187	104,492	11,388	2,621	1,367
Wyoming	1977	461	269,479	343	263,515	35,105	8,073	5,373
	1982	440	372,821	321	368,619	49,036	11,531	5,556

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

City	Year	All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
		Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Ypsilanti	1977	206	70,186	147	67,494	9,493	2,308	1,650
	1982	184	90,207	141	88,140	11,927	2,838	1,423
Zeeland	1977	64	19,751	43	18,318	2,169	493	429
	1982	82	32,117	49	30,104	3,592	893	604

SOURCE: Bureau of the Census, 1977 Census of Retail Trade, Area Series, Michigan (Washington, D.C.: 1979), RC77-A-23, Table 7; and Bureau of the Census, 1982 Census of Retail Trade Geographic Area Series Michigan (Washington, D.C.: 1984), RC82-A-23, Table 8.

a. Paid employees for pay period including March 12.
b. No data available for 1977.
c. No data available for 1982.
(D) Data withheld to avoid disclosing figures for individual companies.

TABLE XXI-6. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, EATING AND DRINKING PLACES IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments 1977	Number of establishments 1982	Sales ($1,000) 1977	Sales ($1,000) 1982	County	Number of establishments 1977	Number of establishments 1982	Sales ($1,000) 1977	Sales ($1,000) 1982
Alcona	29	23	2,177	2,058	Gladwin	31	29	3,511	4,979
Alger	34	24	2,407	2,608	Gogebic	87	51	5,046	5,319
Allegan	102	97	13,383	20,139	Grand Traverse	106	107	22,338	39,077
Alpena	65	46	10,165	9,808	Gratiot	58	47	9,476	11,714
Antrim	44	35	4,144	5,034	Hillsdale	65	48	6,792	8,982
Arenac	33	31	3,696	5,979	Houghton	91	68	8,928	9,605
Baraga	18	15	2,208	1,688	Huron	92	69	8,490	11,321
Barry	41	43	5,115	9,082	Ingham	362	340	95,262	135,481
Bay	183	182	34,553	45,641	Ionia	73	63	9,048	12,057
Benzie	33	17	3,400	2,641	Iosco	64	59	7,417	10,988
Berrien	300	261	51,931	65,206	Iron	60	28	3,356	3,051
Branch	60	50	9,319	9,778	Isabella	74	66	15,488	20,143
Calhoun	245	213	47,840	59,650	Jackson	205	197	38,106	54,508
Cass	76	50	9,261	9,193	Kalamazoo	290	299	68,355	113,296
Charlevoix	49	44	5,309	7,743	Kalkaska	19	17	2,475	4,149
Cheboygan	83	83	9,238	13,477	Kent	608	552	146,917	220,310
Chippewa	78	71	8,890	12,278	Keweenaw	14	10	706	766
Clare	54	47	5,278	7,473	Lake	30	21	2,626	3,247
Clinton	47	46	7,742	9,498	Lapeer	57	59	11,482	13,903
Crawford	30	20	4,132	4,691	Leelanau	34	24	3,787	4,695
Delta	93	72	10,250	12,020	Lenawee	159	137	22,319	30,594
Dickinson	71	44	7,013	8,438	Livingston	92	85	20,596	25,820
Eaton	102	109	25,460	37,000	Luce	21	13	1,619	2,340
Emmet	65	55	11,469	18,158	Mackinac	62	51	5,739	7,605
Genesee	587	573	136,632	200,145	Macomb	854	865	199,627	316,878

TABLE XXI-6. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, EATING AND DRINKING PLACES IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

	Number of establishments		Sales ($1,000)			Number of establishments		Sales ($1,000)	
County	1977	1982	1977	1982	County	1977	1982	1977	1982
Manistee	53	45	4,367	6,944	Presque Isle	33	23	2,445	2,942
Marquette	139	107	20,927	26,360	Roscommon	72	59	7,685	8,149
Mason	54	45	8,415	10,536	Saginaw	302	272	84,532	108,076
Mecosta	58	50	9,375	14,314	St. Clair	200	173	38,680	46,158
Menominee	55	39	6,188	7,598	St. Joseph	76	67	(D)	13,887
Midland	61	69	14,293	28,244	Sanilac	62	44	5,825	6,659
Missaukee	16	18	1,312	2,118	Schoolcraft	35	18	3,002	2,921
Monroe	158	138	24,279	35,193	Shiawassee	80	75	12,594	16,046
Montcalm	77	69	9,422	11,186	Tuscola	85	69	5,799	9,775
Montmorency	27	23	2,656	2,905	Van Buren	94	92	5,556	16,964
Muskegon	228	217	39,803	58,095	Washtenaw	308	340	26,151	134,994
Newaygo	52	42	5,515	7,626	Wayne	3,680	2,867	690,989	865,907
Oakland	1,302	1,359	367,635	565,884	Wexford	49	51	7,150	12,105
Oceana	42	35	3,228	5,701					
Ogemaw	29	38	(D)	7,643	MICHIGAN	13,836	12,260	2,695,997	3,754,626
Ontonagon	34	24	2,352	2,421					
Osceola	31	31	2,584	3,538					
Oscoda	21	19	2,242	2,156					
Otsego	38	35	8,195	9,623					
Ottawa	155	151	34,043	51,704					

SOURCE: Bureau of the Census, 1977 Census of Retail Trade, Area Series, Michigan (Washington, D.C.: 1979), RC77-A-23, Table 7; and Bureau of the Census, 1982 Census of Retail Trade, Geographic Area Series Michigan (Washington, D.C.: 1984), RC82-A-23, Table 8.

TABLE XXI-7. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, FOOD STORES IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments		Sales ($1,000)		County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982		1977	1982	1977	1982
Alcona	19	10	4,766	3,594	Gladwin	23	16	12,989	21,158
Alger	23	13	8,518	9,638	Gogebic	31	17	13,375	18,442
Allegan	61	54	38,628	61,298	Grand Traverse	82	62	38,828	70,573
Alpena	51	33	30,890	34,903	Gratiot	49	24	26,468	37,252
Antrim	21	18	12,169	16,339	Hillsdale	41	26	25,007	32,608
Arenac	37	15	10,673	12,429	Houghton	55	33	29,567	38,377
Baraga	10	8	6,530	9,509	Huron	54	34	26,191	34,078
Barry	36	22	23,440	31,091	Ingham	213	176	156,875	241,193
Bay	139	107	89,280	120,129	Ionia	42	40	38,215	39,083
Benzie	22	11	9,993	10,882	Iosco	48	27	21,403	25,997
Berrien	166	127	138,334	144,636	Iron	19	12	13,244	15,730
Branch	39	22	22,072	27,532	Isabella	37	28	32,620	40,376
Calhoun	116	93	91,607	112,291	Jackson	123	85	84,808	111,964
Cass	44	32	25,675	23,286	Kalamazoo	145	128	135,148	178,142
Charlevoix	30	19	17,644	24,207	Kalkaska	14	7	8,530	11,355
Cheboygan	33	33	21,312	30,464	Kent	347	256	295,983	390,697
Chippewa	63	32	24,742	24,132	Keweenaw	11	4	(D)	1,095
Clare	47	23	22,127	32,814	Lake	24	9	(D)	5,659
Clinton	44	29	30,840	45,545	Lapeer	55	54	41,298	50,803
Crawford	14	7	8,738	10,185	Leelanau	25	19	6,676	17,051
Delta	71	54	32,096	44,974	Lenawee	77	72	68,688	78,318
Dickinson	43	21	16,885	27,169	Livingston	74	48	56,365	75,468
Eaton	78	54	61,377	84,514	Luce	14	5	7,483	7,997
Emmet	37	27	23,440	31,760	Mackinac	30	28	9,359	14,023
Genesee	396	289	347,764	394,358	Macomb	587	424	628,422	765,515

TABLE XXI-7. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, FOOD STORES IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Number of establishments 1977	Number of establishments 1982	Sales ($1,000) 1977	Sales ($1,000) 1982
Manistee	30	21	15,605	23,706
Marquette	78	62	48,358	64,693
Mason	38	30	20,799	26,046
Mecosta	37	31	20,240	34,960
Menominee	30	15	16,807	16,026
Midland	59	49	53,259	72,688
Missaukee	8	10	5,137	7,698
Monroe	90	65	70,297	100,735
Montcalm	54	35	31,146	42,571
Montmorency	17	9	4,335	8,339
Muskegon	143	102	100,838	130,164
Newaygo	34	22	19,987	28,138
Oakland	897	733	818,582	1,101,432
Oceana	29	26	15,488	21,189
Ogemaw	33	19	17,135	21,520
Ontonagon	16	11	6,189	9,878
Osceola	35	18	11,671	19,741
Oscoda	13	8	4,861	8,459
Otsego	25	10	14,486	18,979
Ottawa	107	95	67,823	120,826
Presque Isle	26	11	10,296	12,275
Roscommon	39	25	19,095	26,437
Saginaw	244	203	180,617	204,487
St. Clair	142	94	89,849	128,476
St. Joseph	61	40	40,673	59,145
Sanilac	55	33	25,559	35,418
Schoolcraft	18	10	8,786	8,336
Shiawassee	71	53	47,687	54,648
Tuscola	65	46	29,323	46,023
Van Buren	68	51	45,787	68,348
Washtenaw	171	136	162,047	223,564
Wayne	2,405	1,585	1,656,346	1,886,203
Wexford	35	24	25,927	28,386
MICHIGAN	9,033	6,469	6,607,773	8,350,167

Source: Bureau of the Census, 1977 Census of Retail Trade, Area Series, Michigan (Washington, D.C.: 1979), RC77-A-23, Table 7; and Bureau of the Census, 1982 Census of Retail Trade, Geographic Area Series Michigan (Washington, D.C.: 1984), RC82-A-23, Table 8.

TABLE XXI-8. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, AUTOMOTIVE DEALERS IN MICHIGAN, BY COUNTY: 1977 AND 1982

	Number of establishments		Sales ($1,000)			Number of establishments		Sales ($1,000)	
County	1977	1982	1977	1982	County	1977	1982	1977	1982
Alcona	8	7	(D)	7,785	Gladwin	16	11	11,106	9,443
Alger	5	--	4,151	--	Gogebic	14	7	11,611	10,940
Allegan	70	38	60,621	52,878	Grand Traverse	43	31	50,108	70,871
Alpena	29	18	22,966	21,756	Gratiot	33	25	26,533	26,994
Antrim	14	9	7,024	5,357	Hillsdale	37	18	23,791	24,205
Arenac	18	7	10,445	15,123	Houghton	32	20	18,989	16,375
Baraga	9	3	5,827	2,861	Huron	42	17	26,921	23,746
Barry	27	14	14,046	11,822	Ingham	122	72	253,984	248,702
Bay	86	45	106,485	97,058	Ionia	34	18	29,815	26,349
Benzie	16	7	9,323	7,287	Iosco	26	15	17,345	21,505
Berrien	121	74	118,434	104,367	Iron	14	10	7,002	4,543
Branch	31	17	32,538	28,290	Isabella	26	19	26,827	31,911
Calhoun	84	47	95,661	94,853	Jackson	71	44	95,589	79,723
Cass	28	16	22,780	26,159	Kalamazoo	106	70	155,088	185,180
Charlevoix	27	17	12,789	12,929	Kalakska	9	5	13,088	(D)
Cheboygan	24	19	15,729	16,493	Kent	263	168	377,843	467,233
Chippewa	24	13	16,723	13,537	Keweenaw	--	--	--	--
Clare	16	15	13,433	15,292	Lake	3	1	(D)	(D)
Clinton	33	22	31,865	35,140	Lapeer	41	30	44,778	52,685
Crawford	5	5	(D)	(D)	Leelanau	11	3	1,149	(D)
Delta	29	18	29,102	32,880	Lenawee	80	42	79,560	63,276
Dickinson	21	17	(D)	15,431	Livingston	45	28	49,036	61,398
Eaton	45	30	72,209	76,095	Luce	7	5	7,456	4,394
Emmet	22	11	20,956	25,283	Mackinac	9	6	2,388	2,573
Genesee	233	145	482,044	417,045	Macomb	311	244	672,265	788,748

TABLE XXI-8. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, AUTOMOTIVE DEALERS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982
Manistee	24	15	14,535	12,085
Marquette	46	29	42,093	43,445
Mason	14	10	16,229	12,010
Mecosta	27	18	19,055	18,810
Menominee	30	9	13,937	8,155
Midland	45	25	47,026	51,517
Missaukee	7	3	(D)	(D)
Monroe	64	38	101,640	88,747
Montcalm	48	30	35,122	36,001
Montmorency	3	1	(D)	(D)
Muskegon	114	70	95,943	91,916
Newaygo	20	13	15,026	13,618
Oakland	474	326	1,081,473	1,248,039
Oceana	29	14	9,496	8,801
Ogemaw	18	11	10,649	9,804
Ontonagon	10	5	9,187	7,560
Osceola	7	7	4,341	8,476
Oscoda	6	5	594	1,093
Otsego	19	13	9,325	12,239
Ottawa	108	76	92,805	121,570
Presque Isle	10	9	7,345	5,991
Roscommon	19	15	7,411	14,338
Saginaw	134	80	164,893	191,746
St. Clair	98	60	76,642	73,086
St. Joseph	51	31	43,768	41,352
Sanilac	42	25	23,999	22,217
Schoolcraft	7	3	4,893	(D)
Shiawassee	54	24	53,708	44,004
Tuscola	53	28	38,353	33,957
Van Buren	33	31	52,545	44,097
Washtenaw	122	81	206,461	240,116
Wayne	762	464	1,854,825	1,516,734
Wexford	32	23	253,378	23,993
MICHIGAN	4,970	3,095	7,432,738	7,432,117

SOURCE: Bureau of the Census, 1977 Census of Retail Trade, Geographic Area Series, Michigan (Washington, D.C.: 1979), RC77-A-23, Table 7; and Bureau of the Census, 1982 Census of Retail Trade, Geographic Area Series, Michigan (Washington, D.C.: 1984), RC82-A-23, Table 8.

(D) Data withheld to avoid disclosing figures for individual companies.

TABLE XXI-9. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, DRUG AND PROPRIETARY STORES IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments		Sales ($1,000)		County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982		1977	1982	1977	1982
Alcona	2	2	(D)	(D)	Gladwin	6	6	1,319	1,399
Alger	2	2	(D)	(D)	Gogebic	5	7	1,386	1,968
Allegan	15	16	6,232	8,395	Grand Traverse	15	11	(D)	4,520
Alpena	8	7	3,689	4,276	Gratiot	8	9	3,564	4,548
Antrim	5	6	1,199	1,619	Hillsdale	7	7	3,619	4,618
Arenac	4	2	967	(D)	Houghton	8	9	2,581	4,514
Baraga	1	2	(D)	(D)	Huron	11	11	(D)	6,048
Barry	8	9	2,029	3,191	Ingham	55	55	22,138	31,981
Bay	21	25	(D)	17,581	Ionia	9	10	2,935	4,609
Benzie	8	4	1,747	1,593	Iosco	7	4	3,515	4,175
Berrien	37	33	17,036	22,033	Iron	4	4	893	2,625
Branch	8	9	3,333	6,464	Isabella	11	8	6,319	6,926
Calhoun	32	28	(D)	21,654	Jackson	31	31	(D)	21,476
Cass	7	8	2,426	3,377	Kalamazoo	32	33	15,303	27,909
Charlevoix	7	10	1,676	3,502	Kalkaska	1	1	(D)	(D)
Cheboygan	5	8	1,462	2,550	Kent	78	79	(D)	55,057
Chippewa	8	4	2,933	2,550	Keweenaw	--	--	--	--
Clare	5	7	1,869	4,171	Lake	2	1	(D)	(D)
Clinton	9	8	2,934	4,073	Lapeer	13	10	8,275	10,506
Crawford	3	5	787	1,211	Leelanau	3	3	340	(D)
Delta	7	8	1,492	3,018	Lenawee	19	18	(D)	10,662
Dickinson	6	5	2,156	3,163	Livingston	12	14	9,972	14,101
Eaton	13	14	5,375	6,747	Luce	2	2	(D)	(D)
Emmet	9	8	2,917	3,705	Mackinac	3	3	(D)	(D)
Genesee	108	104	(D)	80,752	Macomb	130	131	(D)	163,479

TABLE XXI-9. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, DRUG AND PROPRIETARY STORES IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982
Manistee	9	5	2,314	3,516
Marquette	10	9	3,943	6,183
Mason	7	6	3,245	4,271
Mecosta	7	7	2,542	3,516
Menominee	2	2	(D)	(D)
Midland	11	12	9,527	13,667
Missaukee	2	2	(D)	(D)
Monroe	18	18	(D)	11,925
Montcalm	10	10	3,195	5,210
Montmorency	3	3	(D)	1,454
Muskegon	39	31	15,034	(D)
Newaygo	8	10	1,468	3,511
Oakland	198	226	(D)	254,117
Oceana	5	5	1,195	(D)
Ogemaw	3	6	1,984	2,627
Ontonagon	3	4	675	924
Osceola	3	4	1,210	2,163
Oscoda	2	2	(D)	(D)
Otsego	2	4	1,534	2,069
Ottawa	25	28	(D)	12,560
Presque Isle	5	4	1,042	(D)
Roscommon	6	5	2,237	3,026
Saginaw	52	49	(D)	29,497
St. Clair	28	24	14,652	17,158
St. Joseph	15	14	4,459	6,848
Sanilac	10	10	3,144	4,901
Schoolcraft	3	3	927	1,377
Shiawassee	16	13	(D)	8,951
Tuscola	12	11	(D)	5,365
Van Buren	12	12	(D)	6,288
Washtenaw	42	40	(D)	44,035
Wayne	479	435	317,286	413,838
Wexford	6	7	1,984	4,375
MICHIGAN	1,899	1,822	1,050,132	1,494,430

SOURCE: Bureau of the Census, 1977 Census of Retail Trade, Geographic Area Series, Michigan (Washington, D.C.: 1979), RC77-A-23, Table 7; and Bureau of the Census, 1982 Census of Retail Trade, Geographic Area Series, Michigan (Washington, D.C.: 1984), RC82-A-23, Table 8.

(D) Data withheld to avoid disclosing figures for individual companies.

TABLE XXI-10. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, APPAREL AND ACCESSORY STORES IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments 1977	Number of establishments 1982	Sales ($1,000) 1977	Sales ($1,000) 1982	County	Number of establishments 1977	Number of establishments 1982	Sales ($1,000) 1977	Sales ($1,000) 1982
Alcona	1	1	(D)	(D)	Gladwin	8	6	861	774
Alger	4	2	568	(D)	Gogebic	16	15	2,387	5,185
Allegan	34	20	4,879	4,610	Grand Traverse	41	61	(D)	24,407
Alpena	24	28	8,479	9,316	Gratiot	33	25	3,936	5,103
Antrim	5	4	720	(D)	Hillsdale	20	14	4,110	4,305
Arenac	5	3	520	749	Houghton	14	17	4,694	6,737
Baraga	3	2	(D)	(D)	Huron	24	18	4,336	6,945
Barry	13	12	3,184	3,953	Ingham	131	140	47,861	67,198
Bay	60	68	18,263	33,788	Ionia	27	18	3,741	5,083
Benzie	9	7	808	707	Iosco	19	16	1,996	3,591
Berrien	75	85	20,416	29,99[illegible]	Iron	11	14	1,220	2,395
Branch	24	20	4,644	6,678	Isabella	34	32	11,282	14,941
Calhoun	65	52	18,380	21,249	Jackson	58	44	23,149	26,492
Cass	16	9	3,034	2,496	Kalamazoo	128	148	41,450	66,934
Charlevoix	13	11	1,718	2,313	Kalkaska	5	1	418	(D)
Cheboygan	21	16	3,394	6,361	Kent	220	235	99,359	144,826
Chippewa	23	18	5,367	5,928	Keweenaw	--	--	--	--
Clare	11	7	2,759	3,094	Lake	1	1	(D)	(D)
Clinton	22	12	4,946	3,961	Lapeer	24	24	7,132	8,972
Crawford	5	3	(D)	(D)	Leelanau	4	6	656	1,206
Delta	24	23	5,683	8,233	Lenawee	48	41	12,861	13,096
Dickinson	19	24	5,270	7,274	Livingston	30	23	5,120	6,526
Eaton	57	72	17,036	32,021	Luce	4	2	719	(D)
Emmet	42	45	10,340	14,785	Mackinac	10	8	(D)	1,449
Genesee	224	229	83,779	95,446	Macomb	278	305	96,421	168,631

TABLE XXI-10. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, APPAREL AND ACCESSORY STORES IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Number of establishments		Sales ($1,000)		County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982		1977	1982	1977	1982
Manistee	11	13	2,803	4,361	Presque Isle	8	3	890	406
Marquette	38	37	9,296	13,584	Roscommon	14	9	1,724	2,066
Mason	13	18	1,898	5,571	Saginaw	130	126	59,321	57,735
Mecosta	15	11	4,562	8,294	St. Clair	50	59	17,785	29,459
Menominee	8	4	721	1,759	St. Joseph	31	28	5,531	8,551
Midland	41	41	5,938	17,109	Sanilac	22	13	3,522	2,940
Missaukee	3	1	102	(D)	Schoolcraft	6	7	1,454	1,828
Monroe	24	19	6,872	10,310	Shiawassee	27	25	6,382	9,403
Montcalm	17	9	3,443	3,806	Tuscola	27	19	4,470	4,224
Montmorency	5	1	(D)	(D)	Van Buren	20	14	2,373	3,437
Muskegon	66	61	(D)	(D)	Washtenaw	141	148	61,351	69,384
Newaygo	12	8	2,005	2,322	Wayne	999	873	432,016	502,211
Oakland	811	803	345,018	511,209	Wexford	17	24	5,644	8,033
Oceana	5	5	(D)	(D)					
Ogemaw	8	8	1,523	2,232	MICHIGAN	4,649	4,466	1,641,875	2,221,887
Ontonagon	7	3	788	664					
Osceola	10	6	1,077	732					
Oscoda	2	2	(D)	(D)					
Otsego	11	14	1,659	4,257					
Ottawa	60	67	14,400	29,627					

SOURCE: Bureau of the Census, _1977 Census of Retail Trade, Geographic Area Series, Michigan_ (Washington, D.C.: 1979), RC77-A-23, Table 7; and Bureau of the Census, _1982 Census of Retail Trade, Geographic Area Series, Michigan_ (Washington, D.C.: 1984), RC82-A-23, Table 8.

(D): Data withheld to avoid disclosing figures for individual companies.

TABLE XXI-11. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, GENERAL MERCHANDISE STORES IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments		Sales ($1,000)		County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982		1977	1982	1977	1982
Alcona	7	3	936	648	Gladwin	6	6	(D)	2,284
Alger	5	2	335	(D)	Gogebic	11	9	7,432	9,848
Allegan	18	10	2,671	4,583	Grand Traverse	14	12	(D)	62,149
Alpena	11	6	10,401	14,513	Gratiot	10	8	9,474	14,924
Antrim	8	1	518	(D)	Hillsdale	8	5	8,458	8,575
Arenac	5	2	730	(D)	Houghton	9	8	4,199	10,768
Baraga	7	4	2,536	2,666	Huron	10	9	2,263	8,469
Barry	5	5	1,512	760	Ingham	31	20	173,508	194,614
Bay	14	12	56,476	46,376	Ionia	9	8	(D)	(D)
Benzie	--	2	--	(D)	Iosco	10	5	2,338	1,587
Berrien	28	18	63,647	90,952	Iron	7	4	2,196	1,765
Branch	14	7	10,050	7,575	Isabella	6	6	13,874	15,590
Calhoun	21	13	76,122	87,731	Jackson	24	20	(D)	120,255
Cass	4	4	1,585	3,220	Kalamazoo	36	27	168,949	213,017
Charlevoix	12	4	1,493	1,343	Kalkaska	3	--	241	--
Cheboygan	10	9	1,863	5,096	Kent	53	43	(D)	(D)
Chippewa	8	5	11,443	12,163	Keweenaw	--	1	--	(D)
Clare	11	5	1,561	699	Lake	3	1	615	(D)
Clinton	5	5	(D)	(D)	Lapeer	12	7	(D)	11,823
Crawford	4	3	3,041	3,173	Leelanau	4	2	(D)	(D)
Delta	13	7	14,407	19,923	Lenawee	23	14	28,520	53,318
Dickinson	12	6	16,306	(D)	Livingston	12	12	(D)	41,391
Eaton	19	11	83,893	113,391	Luce	2	2	(D)	(D)
Emmet	11	9	(D)	6,434	Mackinac	2	1	(D)	(D)
Genesee	57	41	291,800	351,040	Macomb	57	51	361,587	435,278

TABLE XXI-11. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, GENERAL MERCHANDISE STORES IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982
Manistee	10	5	6,116	6,038
Marquette	17	9	(D)	19,144
Mason	9	5	9,538	5,712
Mecosta	13	10	8,721	10,841
Menominee	9	4	11,198	(D)
Midland	8	7	(D)	20,198
Missaukee	4	3	471	(D)
Monroe	18	8	31,010	25,763
Montcalm	16	10	22,696	(D)
Montmorency	2	2	(D)	(D)
Muskegon	19	13	96,124	112,014
Newaygo	10	9	(D)	5,426
Oakland	115	75	640,106	705,583
Oceana	5	7	1,260	1,681
Ogemaw	8	5	1,558	5,681
Ontonagon	4	4	1,102	(D)
Osceola	4	4	833	(D)
Oscoda	2	1	(D)	(D)
Otsego	4	3	837	(D)
Ottawa	24	20	(D)	(D)
Presque Isle	7	2	1,697	(D)
Roscommon	11	7	1,158	1,999
Saginaw	28	22	134,599	191,204
St. Clair	23	13	44,706	44,631
St. Joseph	16	10	(D)	11,773
Sanilac	13	7	1,770	4,137
Schoolcraft	2	3	(D)	(D)
Shiawassee	16	12	18,504	16,648
Tuscola	13	8	3,203	6,065
Van Buren	13	8	4,001	8,634
Washtenaw	27	23	(D)	200,140
Wayne	224	138	1,096,790	977,632
Wexford	7	5	8,948	7,884
MICHIGAN	1,372	937	4,381,137	4,927,608

SOURCE: Bureau of the Census, 1977 Census of Retail Trade, Area Series, Michigan (Washington, D.C.: 1979), RC-[illegible]7-A-23, Table 7; and Bureau of the Census, 1982 Census of Retail Trade, Area Series, Michigan (Washington, D.C.: 1984), RC82-A-23, Table 8.

(D): Data withheld to avoid disclosing figures for individual companies.

TABLE XXI-12. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, FURNITURE, HOME FURNISHINGS, AND EQUIPMENT STORES IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982
Alcona	4	--	(D)	--
Alger	5	2	468	(D)
Allegan	40	15	4,104	4,413
Alpena	32	18	6,542	5,674
Antrim	4	2	(D)	(D)
Arenac	5	4	426	1,683
Baraga	5	1	287	(D)
Barry	20	4	1,809	904
Bay	84	51	18,272	17,427
Benzie	11	7	731	925
Berrien	122	60	49,556	14,681
Branch	25	8	3,167	2,599
Calhoun	96	53	21,129	16,612
Cass	18	7	1,584	1,531
Charlevoix	20	13	3,095	2,876
Cheboygan	9	7	1,412	1,558
Chippewa	17	11	2,364	2,996
Clare	18	4	3,023	1,879
Clinton	21	14	3,743	2,980
Crawford	5	2	527	(D)
Delta	29	17	6,330	6,359
Dickinson	21	12	4,818	5,901
Eaton	50	31	10,795	12,784
Emmet	26	20	6,128	9,703
Genesee	271	132	91,225	86,086
Gladwin	8	5	1,667	2,212
Gogebic	14	6	2,350	2,978
Grand Traverse	61	45	12,067	16,397
Gratiot	24	13	3,865	2,793
Hillsdale	27	16	3,344	3,349
Houghton	20	9	3,124	3,160
Huron	32	16	4,339	3,296
Ingham	136	98	51,880	68,981
Ionia	24	14	2,827	3,269
Iosco	29	9	3,651	2,756
Iron	13	4	1,128	783
Isabella	27	15	6,432	6,692
Jackson	66	43	17,552	20,434
Kalamazoo	136	108	42,474	66,292
Kalkaska	3	3	274	339
Kent	308	195	98,487	135,832
Keweenaw	--	--	--	--
Lake	1	--	(D)	--
Lapeer	29	7	5,504	3,391
Leelanau	11	2	557	(D)
Lenawee	53	26	11,305	8,085
Livingston	49	23	7,967	8,394
Luce	5	2	418	(D)
Mackinac	6	2	682	(D)
Macomb	364	201	135,804	149,033

TABLE XXI-12. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, FURNITURE, HOME FURNISHINGS, AND EQUIPMENT STORES IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982
Manistee	14	13	1,615	2,397
Marquette	44	24	9,939	10,893
Mason	20	13	2,267	2,604
Mecosta	22	13	3,872	3,200
Menominee	16	4	1,905	789
Midland	40	23	7,777	7,941
Missaukee	2	1	(D)	(D)
Monroe	35	23	11,490	9,608
Montcalm	32	13	4,729	6,388
Montmorency	17	1	344	(D)
Muskegon	94	55	21,781	(D)
Newaygo	24	7	2,248	2,238
Oakland	649	463	235,670	299,578
Oceana	12	1	978	(D)
Ogemaw	11	4	1,777	1,531
Ontonagon	6	1	(D)	(D)
Osceola	10	1	472	(D)
Oscoda	6	5	361	578
Otsego	9	12	1,735	2,823
Ottawa	103	61	18,812	21,441
Presque Isle	8	3	1,660	1,301
Roscommon	17	7	1,465	952
Saginaw	148	73	45,573	56,777
St. Clair	76	34	17,957	15,824
St. Joseph	35	22	4,888	5,102
Sanilac	25	14	3,852	3,725
Schoolcraft	7	2	679	(D)
Shiawassee	38	19	8,380	6,839
Tuscola	29	8	3,006	2,592
Van Buren	32	14	4,635	3,662
Washtenaw	144	92	55,314	69,381
Wayne	901	508	349,138	354,960
Wexford	22	9	4,822	4,554
MICHIGAN	5,042	2,900	1,491,082	1,631,427

SOURCE: Bureau of the Census, 1977 Census of Retail Trade, Area Series, Michigan (Washington, D.C.: 1979), RC-77-A-23, Table 7; and Bureau of the Census, 1982 Census of Retail Trade, Area Series, Michigan (Washington, D.C.: 1984), RC82-A-23, Table 8.

(D): Data withheld to avoid disclosing figures for individual companies.

TABLE XXI-13. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, BUILDING MATERIALS, HARDWARE, GARDEN SUPPLY STORES, AND MOBILE HOME DEALERS IN MICHIGAN, BY COUNTY: 1977 AND 1982

	Number of establishments		Sales ($1,000)			Number of establishments		Sales ($1,000)	
County	1977	1982	1977	1982	County	1977	1982	1977	1982
Alcona	8	6	1,786	1,762	Gladwin	11	7	(D)	2,694
Alger	9	4	1,330	937	Gogebic	17	11	3,655	3,648
Allegan	40	36	10,073	17,807	Grand Traverse	40	32	27,741	23,453
Alpena	26	16	9,052	6,867	Gratiot	22	10	8,296	5,252
Antrim	18	12	(D)	4,282	Hillsdale	33	21	8,074	8,371
Arenac	8	6	3,191	2,365	Houghton	20	16	8,868	9,894
Baraga	6	5	(D)	1,272	Huron	42	26	(D)	10,257
Barry	23	12	5,628	8,864	Ingham	80	63	42,165	39,895
Bay	49	33	23,716	18,507	Ionia	25	20	11,472	13,579
Benzie	12	5	4,616	3,438	Iosco	21	16	9,588	9,597
Berrien	89	49	36,928	33,122	Iron	11	8	1,956	1,731
Branch	30	24	9,733	13,256	Isabella	26	21	9,719	19,123
Calhoun	67	46	19,148	20,620	Jackson	68	49	25,517	29,137
Cass	23	16	5,100	5,456	Kalamazoo	77	56	46,426	49,203
Charlevoix	14	9	4,580	6,593	Kalkaska	6	5	(D)	3,260
Cheboygan	18	16	7,256	7,598	Kent	170	113	109,501	112,173
Chippewa	24	17	7,536	6,483	Keweenaw	1	2	(D)	(D)
Clare	22	14	8,177	7,208	Lake	7	2	(D)	(D)
Clinton	25	18	12,855	19,502	Lapeer	28	18	9,132	13,290
Crawford	9	8	1,722	3,575	Leelanau	8	6	(D)	4,572
Delta	34	22	11,252	10,371	Lenawee	51	36	15,914	13,331
Dickinson	28	11	(D)	10,022	Livingston	45	26	16,078	12,368
Eaton	38	30	10,347	13,334	Luce	5	1	1,442	(D)
Emmet	27	18	(D)	11,319	Mackinac	12	8	3,227	2,997
Genesee	170	134	80,727	86,426	Macomb	215	158	149,162	159,581

TABLE XXI-17. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN RETAIL TRADE AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

County	Percentage		County	Percentage	
	1973	1983		1973	1983
Ogemaw	20.32	22.87	Tuscola	11.39	9.63
Roscommon	28.30	21.73	Shiawassee	12.05	9.60
Clare	24.88	21.01	Van Buren	11.18	9.59
Crawford	20.06	19.82	Alger	13.26	9.59
Cheboygan	19.88	19.68	Jackson	9.65	9.58
Missaukee	17.83	19.66	Lapeer	12.24	9.53
Mackinac	20.38	18.70	Alpena	12.77	9.45
Alcona	20.71	18.37	Manistee	10.74	9.39
Arenac	18.11	17.32	Huron	10.91	9.37
Gogebic	15.60	17.11	St. Clair	11.87	9.24
Keweenaw	8.02	16.86	Clinton	12.74	9.22
Montmorency	16.94	16.51	Mason	11.43	9.18
Lake	16.29	16.35	Muskegon	9.04	9.14
Oscoda	16.63	16.21	Saginaw	8.96	9.09
Otsego	15.81	15.04	Baraga	10.51	8.90
Gladwin	17.00	14.97	Montcalm	11.87	8.78
Schoolcraft	17.52	14.83	Marquette	9.36	8.64
Livingston	15.05	14.53	Berrien	10.01	8.63
Oceana	18.67	14.04	Allegan	10.57	8.61
Emmet	17.97	13.98	Ottawa	8.73	8.56
Leelanau	12.36	13.62	Lenawee	9.87	8.35
Eaton	17.15	13.37	Menominee	9.72	8.32
Benzie	14.50	13.10	Hillsdale	11.14	8.30
Grand Traverse	16.41	12.69	Kalamazoo	9.13	8.27
Isabella	12.35	12.51	Charlevoix	12.09	8.14
Chippewa	10.65	12.33	Iosco	10.94	8.13
Gratiot	10.44	11.44	Ontonagon	5.66	8.00
Houghton	15.45	11.42	Branch	9.25	7.75
Antrim	11.85	11.35	Calhoun	8.83	7.75
Kent	13.46	11.15	Osceola	9.40	7.71
Oakland	11.26	11.14	Monroe	11.26	7.70
Ionia	11.41	10.70	Wayne	8.77	7.52
Mecosta	11.59	10.69	Presque Isle	11.69	7.45
Bay	12.28	10.60	Kalkaska	19.55	7.31
Wexford	12.91	10.55	Ingham	8.18	7.00
Iron	16.02	10.30	Genesee	7.89	6.95
Delta	14.02	10.30	Luce	9.98	6.34
St. Joseph	10.13	10.10	Washtenaw	7.88	6.09
Sanilac	12.62	10.03	Cass	9.40	5.62
Newaygo	11.45	9.89	Midland	6.00	4.82
Barry	9.48	9.85			
Dickinson	12.00	9.74	Michigan	9.65	8.81
Macomb	7.93	9.68	United States	10.42	9.62

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE XXI-18. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN RETAIL TRADE: 1982-1983

	Percentage change			Percentage change	
County	1973-1983	1982-1983	County	1973-1983	1982-1983
Ogemaw	145	18	Hillsdale	33	6
Oscoda	55	17	Allegan	66	6
Gratiot	84	15	Cass	6	6
Gladwin	73	13	Mecosta	89	6
Livingston	142	12	Kalamazoo	110	6
Benzie	77	12	Washtenaw	88	6
Delta	50	12	Luce	46	6
Eaton	51	12	Houghton	59	5
Grand Traverse	112	12	St. Joseph	88	5
Iron	41	12	Arenac	80	5
Roscommon	66	11	St. Clair	62	5
Ottawa	139	10	Clinton	57	5
Otsego	148	10	Newaygo	70	5
Crawford	110	9	Calhoun	52	5
Montcalm	73	9	Lake	34	4
Alcona	53	9	Midland	87	4
Van Buren	50	9	Genesee	71	4
Isabella	138	9	Lenawee	27	4
Saginaw	82	9	Montmorency	40	4
Kent	89	9	Charlevoix	39	4
Macomb	123	9	Chippewa	41	4
Ionia	66	9	Shiawassee	36	4
Leelanau	83	8	Wayne	28	3
Antrim	58	8	Sanilac	12	3
Oakland	131	8	Lapeer	54	3
Alger	32	8	Wexford	85	3
Mackinac	84	8	Iosco	35	3
Ingham	97	8	Mason	45	3
Oceana	36	8	Alpena	34	3
Schoolcraft	74	8	Gogebic	71	2
Dickinson	72	8	Manistee	88	2
Clare	79	7	Bay	56	2
Osceola	54	7	Cheboygan	89	1
Baraga	33	7	Presque Isle	12	1
Monroe	52	7	Jackson	66	1
Menominee	78	7	Missaukee	75	1
Emmet	67	7	Ontonagon	21	0
Barry	83	7	Marquette	87	-2
Muskegon	84	7	Kalkaska	69	-3
Huron	33	7	Keweenaw	72	-4
Berrien	35	6			
Tuscola	41	6	Michigan	69	6
Branch	58	6	United States	114	8

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

XXII. FINANCE, INSURANCE, AND REAL ESTATE

Information on the number of banking offices in the state and operating statistics of insured banks are available from the Federal Deposit Insurance Corporation. Data on bank activity throughout the state are contained in the publications and releases of the Board of Governors of the Federal Reserve System. The Board of Governors of the Federal Reserve System releases Bank Debits and Deposit Turnover monthly, listing debits for the Federal Reserve districts and the principal cities. Detailed information on bank debits in Michigan also is available in the releases of the Federal Reserve banks of Chicago and Minneapolis.

Total time and demand deposits by counties and states are available in the F.D.I.C. publication Summary of Deposits in All Commercial and Mutual Savings Banks. Information on bank balance sheet items and operations can be obtained in two other F.D.I.C. publications Bank Operating Statistics and Assets and Liabilities - Commercial and Mutual Savings.

Detailed data about the operations of savings and loan associations are presented in the annual Asset and Liability Trends, published by the Federal Home Loan Bank Board. Small loan company and state-chartered credit union operations in Michigan are covered in Analysis and Recapitulation of Reports of Regulatory Loan Licenses and Abstracts of Reports of Credit Unions, respectively, of the Financial Institutions Bureau, Michigan Department of Commerce. Similar data on credit unions chartered by the federal government are given in the Annual Report published by the Bureau of Federal Credit Unions. Information on production credit associations is available in the Annual Report of the U.S. Farm Credit Administration.

The basic source of information about insurance operations in Michigan is the Annual Report of the Michigan Department of Insurance. This includes the home office address and a summary of financial conditions for all companies licensed to do business in Michigan. The annual Life Insurance Fact Book of the Institute of Life Insurance presents data about the amount of insurance in force, benefit payments, premium collections, and so forth, for the United States, as well as a good deal of information on a state basis.

Statistics on the number of certified public accountants and real estate brokers and salesman licensed in each county are tabulated by the Michigan Department of Regulation, which licenses these occupations. Data on health insurance are included in chapter III.

XXII. FINANCE, INSURANCE, AND REAL ESTATE

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TABLE XXI-13. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, BUILDING MATERIALS, HARDWARE, GARDEN SUPPLY STORES, AND MOBILE HOME DEALERS IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments 1977	Number of establishments 1982	Sales ($1,000) 1977	Sales ($1,000) 1982	County	Number of establishments 1977	Number of establishments 1982	Sales ($1,000) 1977	Sales ($1,000) 1982
Manistee	14	9	4,192	5,119	Presque Isle	12	7	5,968	3,996
Marquette	39	29	15,087	12,358	Roscommon	19	14	7,942	7,316
Mason	14	13	7,729	7,924	Saginaw	81	60	42,316	39,107
Mecosta	14	11	5,150	5,624	St. Clair	57	43	23,163	25,494
Menominee	14	10	(D)	2,255	St. Joseph	31	18	9,262	8,832
Midland	35	24	(D)	19,727	Sanilac	49	24	13,862	12,840
Missaukee	6	2	915	(D)	Schoolcraft	10	4	(D)	1,979
Monroe	43	27	17,647	15,816	Shiawassee	42	25	20,359	14,572
Montcalm	28	22	17,218	16,807	Tuscola	40	28	(D)	15,746
Montmorency	8	7	3,661	3,578	Van Buren	44	26	11,971	12,319
Muskegon	54	39	30,263	26,778	Washtenaw	72	63	53,124	59,415
Newaygo	21	16	(D)	7,565	Wayne	565	369	257,834	289,601
Oakland	362	245	206,671	202,691	Wexford	19	10	8,104	5,722
Oceana	19	11	4,427	6,111					
Ogemaw	21	12	(D)	6,918	MICHIGAN	3,712	2,551	1,683,382	1,755,652
Ontonagon	10	7	(D)	2,375					
Osceola	24	16	4,828	7,194					
Oscoda	10	7	2,618	3,709					
Otsego	15	13	8,301	7,076					
Ottawa	62	42	25,955	28,533					

SOURCE: Bureau of the Census, 1977 Census of Retail Trade, Area Series, Michigan (Washington, D.C.: 1979), RC-77-A-23, Table 7; and Bureau of the Census, 1982 Census of Retail Trade, Area Series, Michigan (Washington, D.C.: 1984), RC82-A-23, Table 8.

(D): Data withheld to avoid disclosing figures for individual companies.

TABLE XXI-14. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, GASOLINE SERVICE STATIONS IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982
Alcona	13	8	1,970	1,929
Alger	16	10	3,946	5,183
Allegan	65	41	21,925	32,812
Alpena	27	17	8,416	14,908
Antrim	21	6	3,418	756
Arenac	27	15	8,630	9,481
Baraga	10	6	3,656	4,515
Barry	25	19	7,199	12,615
Bay	97	56	36,405	49,936
Benzie	17	6	3,107	2,989
Berrien	169	110	59,800	105,923
Branch	35	22	7,532	19,201
Calhoun	118	74	47,489	75,041
Cass	29	18	6,711	9,647
Charlevoix	23	11	5,812	8,360
Cheboygan	41	25	8,782	13,676
Chippewa	44	17	8,788	10,101
Clare	32	16	5,988	8,052
Clinton	35	18	13,199	17,851
Crawford	19	10	6,353	5,412
Delta	46	27	14,681	22,304
Dickinson	30	18	8,262	8,959
Eaton	80	49	29,853	49,207
Emmet	36	25	12,129	12,779
Genesee	274	166	134,458	185,737
Gladwin	21	11	4,824	5,256
Gogebic	29	12	5,703	7,346
Grand Traverse	48	46	19,455	35,933
Gratiot	47	20	13,919	19,369
Hillsdale	28	20	7,681	10,752
Houghton	45	20	10,967	9,325
Huron	43	17	9,394	12,539
Ingham	171	119	69,724	116,773
Ionia	39	23	11,446	20,230
Iosco	31	20	8,915	12,389
Iron	30	11	12,306	5,546
Isabella	33	21	11,904	19,318
Jackson	109	74	42,856	65,595
Kalamazoo	155	101	56,242	101,583
Kalkaska	11	7	2,667	8,862
Kent	282	201	114,353	194,183
Keweenaw	6	2	796	(D)
Lake	9	3	1,562	(D)
Lapeer	39	13	(D)	14,788
Leelanau	21	9	7,161	3,073
Lenawee	69	38	24,552	31,740
Livingston	47	31	(D)	37,597
Luce	7	3	454	3,289
Mackinac	28	18	7,104	12,294
Macomb	441	297	208,724	373,416

TABLE XXI-14. NUMBER OF RETAIL TRADE ESTABLISHMENTS AND SALES, GASOLINE SERVICE STATIONS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Number of establishments 1977	Number of establishments 1982	Sales ($1,000) 1977	Sales ($1,000) 1982	County	Number of establishments 1977	Number of establishments 1982	Sales ($1,000) 1977	Sales ($1,000) 1982
Manistee	27	22	6,629	9,293	Presque Isle	15	7	2,431	5,161
Marquette	57	34	22,890	29,958	Roscommon	28	18	7,615	11,163
Mason	27	16	5,779	7,265	Saginaw	144	100	60,757	118,528
Mecosta	31	21	9,842	15,661	St. Clair	94	41	33,593	30,003
Menominee	23	9	7,179	4,434	St. Joseph	47	27	16,115	31,254
Midland	45	27	17,547	33,265	Sanilac	39	10	7,490	5,364
Missaukee	12	6	5,756	2,252	Schoolcraft	16	8	1,937	3,164
Monroe	84	53	37,160	45,104	Shiawassee	45	33	15,056	27,643
Montcalm	46	27	13,005	21,454	Tuscola	50	33	14,552	19,544
Montmorency	12	5	2,207	1,868	Van Buren	55	31	14,862	27,496
Muskegon	109	73	32,509	62,916	Washtenaw	163	122	80,669	140,896
Newaygo	21	7	5,645	4,576	Wayne	1,389	890	609,566	862,038
Oakland	635	438	317,923	537,547	Wexford	31	14	11,425	13,768
Oceana	16	7	2,983	1,524					
Ogemaw	19	16	7,502	11,152	MICHIGAN	6,572	4,128	2,590,860	3,980,960
Ontonagon	15	11	4,312	5,671					
Osceola	26	11	4,632	5,152					
Oscoda	10	5	1,470	4,027					
Otsego	26	11	11,913	10,655					
Ottawa	97	68	30,914	60,830					

SOURCE: Bureau of the Census, 1977 Census of Retail Trade, Geographic Area Series, Michigan (Washington, D.C.: 1979), RC77-A-23, Table 7; and Bureau of the Census, 1982 Census of Retail Trade, Geographic Area Series, Michigan (Washington, D.C.: 1984), RC82-A-23, Table 8.

(D): Data withheld to avoid disclosing figures for individual companies.

TABLE XXI-15. ESTIMATED ANNUAL SALES OF RETAIL STORES IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, THE STATE OF MICHIGAN, AND THE UNITED STATES: 1969-1984

(millions of dollars)

Year	Detroit Standard Metropolitan Statistical Area		Michigan		United States	
	Nondurable goods	Total	Nondurable goods	Total	Nondurable goods	Total
1969	5,511	8,158	10,747	16,161	284,722	351,633
1970	5,679	8,095	11,154	16,317	261,239	375,633
1971	5,874	8,829	11,962	18,342	277,036	408,850
1972	6,164	9,159	12,934	19,792	300,642	449,069
1973	6,821	10,159	14,554	22,181	336,626	509,538
1974	7,324	10,461	15,604	22,775	371,571	540,988
1975	7,607	10,981	16,357	23,964	405,180	588,146
1976	8,234	12,444	18,067	27,034	439,570	657,375
1977	n.a.	n.a.	n.a.	29,520	476,528	725,220
1978	12,134	17,139	23,145	34,307	528,370	806,898
1979	13,426	18,944	25,916	37,759	592,763	899,116
1980	14,641	19,979	27,795	38,532	660,588	959,561
1981	15,115	20,958	29,126	40,516	716,259	1,041,327
1982	13,307	19,372	27,293	39,239	735,353	1,072,065
1983	14,375	21,479	28,825	42,803	777,805	1,174,298
1984	15,280	23,415	30,516	47,012	832,728	1,297,015

SOURCE: U.S. Bureau of the Census, Revised Monthly Retail Sales and Inventories: January 1975 through December 1984, Current Business Reports, (Washington, D.C.: 1985), BR-13-85, Tables 1, 5 & 6.

NOTE: Figures are not strictly comparable over time because of changes in the sample of stores used for the estimate and revisions in the estimating procedure itself.

n.a.: not available.

TABLE XXI-16. ESTIMATED MONTHLY SALES BY RETAIL STORES IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, THE STATE OF MICHIGAN AND THE UNITED STATES: 1979-1984

(Millions of dollars)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Detroit SMSA*						
1979	1,333	1,323	1,573	1,520	1,619	1,673	1,536	1,576	1,498	1,605	1,682	2,006
1980	1,506	1,469	1,596	1,565	1,616	1,657	1,683	1,647	1,596	1,774	1,731	2,139
1981	1,639	1,531	1,826	1,842	1,832	1,781	1,729	1,671	1,654	1,731	1,675	2,047
1982	1,354	1,326	1,573	1,583	1,694	1,638	1,615	1,556	1,581	1,670	1,676	2,106
1983	1,483	1,467	1,767	1,698	1,804	1,895	1,787	1,778	1,746	1,790	1,895	2,369
1984	1,354	1,326	1,573	1,583	1,694	1,638	1,615	1,556	1,581	1,670	1,676	2,106
						Michigan*						
1979	2,643	2,602	3,097	3,038	3,248	3,277	3,107	3,242	3,036	3,302	3,346	3,821
1980	2,931	2,844	3,051	3,050	3,187	3,150	3,319	3,235	3,091	3,428	3,305	3,951
1981	3,072	2,889	3,347	3,437	3,492	3,475	3,474	3,378	3,290	3,441	3,276	3,945
1982	2,710	2,698	3,140	3,244	3,463	3,345	3,382	3,222	3,204	3,340	3,390	4,101
1983	2,888	2,840	3,431	3,428	3,612	3,807	3,622	3,638	3,581	3,632	3,777	4,547
1984	3,270	3,314	3,725	3,799	4,213	4,143	3,936	4,004	3,727	3,938	4,098	4,845
						United States*						
1979	62,808	61,623	73,425	71,706	75,996	76,097	77,398	79,296	73,949	77,817	80,242	92,759
1980	70,804	70,822	76,233	75,488	79,623	77,728	80,248	82,160	77,882	84,150	83,849	100,584
1981	76,861	73,896	84,189	85,533	87,238	87,547	88,492	89,371	85,751	88,962	87,405	106,082
1982	76,710	75,810	86,347	87,759	90,641	88,701	90,851	89,378	87,947	91,131	94,002	112,788
1983	80,998	78,678	93,805	93,895	98,028	100,857	99,255	100,348	97,916	100,724	103,935	125,859
1984	92,811	93,648	104,381	104,629	111,834	112,298	106,875	111,159	104,025	109,550	113,543	132,262

SOURCE: Bureau of the Census, Revised Monthly Retail Sales and Inventories: January 1975 through December 1984, Current Business Reports, (Washington, D.C.: 1985), Tables 1, 5 and 6.

*: data not adjusted for seasonal variations, holidays or trading-day differences.

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TABLE XXII-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF SALES WORKERS IN MICHIGAN AND THE UNITED STATES FINANCE INSURANCE AND REAL ESTATE ESTABLISHMENTS: 1956-1984

Year	Michigan[a] Employment (000)	United States Employment (000)	United States Weekly Hours	United States Weekly Earnings	United States Hourly earnings
1956	77.8	2,389	36.9	65.68	1.78
1957	79.9	2,438	36.7	67.53	1.84
1958	80.6	2,481	37.1	70.12	1.89
1959	82.4	2,549	37.3	72.74	1.95
1960	84.9	2,629	37.2	75.14	2.02
1961	87.0	2,688	36.9	77.12	2.09
1962	88.5	2,754	37.3	80.94	2.17
1963	90.3	2,830	37.5	84.38	2.25
1964	92.7	3,911	37.3	85.79	2.30
1965	96.3	2,977	37.2	88.91	2.39
1966	102.3	3,059	37.3	92.13	2.47
1967	107.7	3,185	37.1	95.72	2.58
1968	112.4	3,337	37.0	101.75	2.75
1969	118.4	3,512	37.1	108.70	2.93
1970	119.7	3,645	36.7	112.67	3.07
1971	121.0	3,772	36.6	117.85	3.22
1972	127.7	3,908	36.6	122.98	3.36
1973	130.3	4,046	36.6	129.20	3.53
1974	134.2	4,148	36.5	137.61	3.77
1975	134.0	4,165	36.5	148.19	4.06
1976	136.9	4,271	36.4	155.43	4.27
1977	142.2	4,467	36.4	165.26	4.54
1978	147.4	4,724	36.4	178.00	4.89
1979	154.5	4,975	36.2	190.77	5.27
1980	156.5	5,160	36.2	209.60	5.79
1981	155.0	5,298	36.3	229.05	6.31
1982	151.9	5,341	36.2	245.44	6.78
1983	151.4	5,468	36.2	263.90	7.29
1984	153.8	5,682	36.5	278.13	7.62

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, _Employment and Earnings_, (Washington, D.C.: monthly), March 1985, Tables B-1 and C-1; and _Supplement to Employment and Earnings_ (Washington, D.C.: June 1985).

a. Hours and earnings data are not available for Michigan.

TABLE XXII-3. YEAR-END ASSETS OF COMMERCIAL BANKS, SAVINGS AND LOAN ASSOCIATIONS, AND CREDIT UNIONS IN MICHIGAN: 1962-1983

(In millions of dollars)

Year	Commercial banks[a]	Savings & loan associations	Credit unions[b]
1962	11,490	2,356	622
1963	12,358	2,705	709
1964	13,915	3,093	831
1965	15,457	3,341	954
1966	16,977	3,424	1,053
1967	19,108	3,719	1,164
1968	21,190	3,979	1,306
1969	22,684	4,288	1,457
1970	25,133	4,830	1,605
1971	27,393	5,760	1,815
1972	30,024	6,842	2,047
1973	33,223	7,692	2,227
1974	34,611	8,478	2,388
1975	35,938	9,753	2,698
1976	38,091	11,365	2,929
1977	43,189	13,257	3,491
1978	48,165	15,255	3,971
1979	50,218	16,925	4,150
1980	53,392	18,426	4,043
1981	56,504	18,556	2,594[c]
1982	58,987	20,064	2,932[c]
1983	63,965	24,748	3,309[c]

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, special release.

a. Insured and uninsured

b. State and Federal chartered

c. State chartered credit unions only.

TABLE XXII-2. NUMBER OF BANKS, SAVINGS AND LOAN AND CREDIT UNION OFFICES AND BRANCHES IN MICHIGAN, YEAR END: 1970-1984

	Commercial banks				Savings and loan		Credit unions[b]		
Year	State banks	State banks' branches	National banks	National banks' branches	Number of associations	Total offices[a]	State chartered	Federally chartered	Total
1970	230	649	103	n.a.	68	248	787	372	1,159
1971	227	667	104	n.a.	65	390	754	364	1,118
1972	226	707	106	n.a.	65	307	724	368	1,092
1973	229	742	111	n.a.	65	326	706	363	1,069
1974	230	790	117	n.a.	66	360	679	365	1,044
1975	231	822	120	n.a.	67	400	656	367	1,023
1976	238	847	122	n.a.	66	434	630	358	988
1977	239	875	123	764	66	478	611	352	963
1978	240	929	125	815	65	526	597	350	937
1979	247	1,028	123	907	65	563	584	345	929
1980	250	1,095	126	971	63	608	572	340	924
1981	250	1,138	126	997	59	636	560	309	869
1982	251	1,156	125	1,009	53	635	531	292	823
1983	248	1,140	124	981	52	651	516	278	794
1984	248	1,142	119	972	53	643	500	264	764

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, special release.

a. Main offices plus branches.
b. Branch office data are not available.

n.a.: Not available.

TABLE XXII-4. ASSETS OF COMMERCIAL BANKS IN MICHIGAN INSURED BY THE FEDERAL DEPOSIT INSURANCE CORPORATION: 31 DECEMBER 1980, 1981, 1982 AND 1983

(In thousands of dollars)

Assets	1980	1981	1982	1983
	Michigan chartered			
Cash and due from depository institutions	$ 2,993,016	$ 4,258,745	$ 5,660,692	$ 5,962,616
U.S. Treasury securities	2,289,004	2,012,121	1,887,598	2,857,179
Obligations of other U.S. Gov't. agencies & corps.	975,366	1,209,436	1,475,435	1,491,680
Obligations of States & political subdivisions in U.S.	2,919,810	2,659,394	2,574,887	2,458,516
All other securities	199,221	206,328	274,660	429,688
Federal funds sold & securities purchased under agreements to resell	709,861	859,297	1,097,821	961,577
Loans, Total (excluding unearned income)	13,199,995	13,355,796	13,466,081	14,622,989
Less: Allowance for possible loan losses	125,737	137,503	142,432	152,540
Loans, Net	13,074,258	13,218,293	13,323,649	14,470,449
Lease financing receivables	37,438	33,434	30,762	30,412
Bank premises, furniture & fixtures & other assets representing bank premises	423,558	444,928	460,304	469,075
Real estate owned other than bank premises	27,004	40,889	71,826	95,465
All other assets	392,236	613,637	648,036	696,382
TOTAL ASSETS	$24,040,772	$25,556,502	$27,505,670	$29,923,039

TABLE XXII-4. ASSETS OF COMMERCIAL BANKS IN MICHIGAN INSURED BY THE FEDERAL DEPOSIT INSURANCE CORPORATION: 31 DECEMBER 1980, 1981, 1982 AND 1983 (cont.)

(In thousands of dollars)

Assets	1980	1981	1982	1983
National chartered				
Cash and due from depository institutions	$ 4,544,432	$ 5,702,122	$ 6,041,581	$ 5,914,597
U.S. Treasury securities	2,107,161	1,680,413	1,655,814	3,470,319
Obligations of other U.S. Gov't. agencies & corps.	660,014	837,457	1,196,717	1,230,534
Obligations of States & political subdivisions in U.S.	3,206,468	2,828,119	2,456,275	2,672,437
All other securities	306,286	209,710	256,193	343,802
Federal funds sold & securities purchased under agreements to resell	635,903	1,426,437	1,303,660	1,131,363
Loans, Total (Excluding unearned income)	16,417,203	16,514,877	16,929,505	17,563,544
Less: Allowance for possible loan losses	155,625	161,096	182,351	211,985
Loans, Net	16,261,578	16,353,781	16,747,154	17,351,559
Lease financing receivables	209,559	259,656	244,217	263,730
Bank premises, furniture & fixtures & other assets representing bank premises	476,154	468,855	462,336	462,509
Real estate owned other than bank premises	33,622	50,215	84,159	108,306
All other assets	909,696	1,130,732	1,033,308	1,092,750
TOTAL ASSETS	$29,350,873	$30,947,497	$31,481,414	$34,041,906

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, Annual Report, (Lansing, Michigan: annual publication).

TABLE XXII-5. LIABILITIES AND EQUITY CAPITAL OF ALL COMMERCIAL BANKS IN MICHIGAN: 31 DECEMBER 1980, 1981, 1982, AND 1983

(In thousands of dollars)

Liabilities and equity capital	1980	1981	1982	1983
	Michigan chartered			
LIABILITIES				
Demand deposits of individuals, partnerships and corporations	$ 3,645,663	$ 3,410,619	$ 3,194,236	$ 3,369,170
Time & savings deposits of individuals, partnerships and corporations	14,523,469	16,275,885	18,135,908	19,893,926
Deposits of United States government	21,550	20,537	29,886	29,738
Deposits of States and political subdivisions in the United States	1,624,418[a]	1,676,258	1,804,714	1,728,472
All other deposits	160,203	242,507	329,329	561,744
Certified and officers' checks	235,108	239,243	232,506	266,912
TOTAL DEPOSITS	20,210,491	21,865,049	23,726,579	25,849,962
Federal funds purchased and securities sold under agreements to repurchase	1,479,219	1,066,893	1,072,860	1,233,943
Interest bearing demand notes (note balances) issued to U.S. Treasury & other liabilities for borrowed money	205,551	236,731	252,599	195,017
Mortgage indebtedness and liability for capitalized leases	20,733	22,109	22,927	20,369
All other liabilities	379,638	572,631	551,202	587,694
TOTAL LIABILITIES	$22,295,632	$23,763,413	$25,626,167	$27,886,985
Subordinated notes and debentures	$ 98,415	$ 93,934	$ 81,546	$ 76,688

TABLE XXII-5. LIABILITIES AND EQUITY CAPITAL OF ALL COMMERCIAL BANKS IN MICHIGAN: 31 DECEMBER 1980, 1981, 1982, AND 1983 (cont.)

(In thousands of dollars)

Liabilities and equity capital	1980	1981	1982	1983
EQUITY CAPITAL				
Preferred stock	$ 1,540	$ 1,540	$ 1,540	$ 1,790
Common stock	332,500	343,048	356,284	361,534
Surplus	654,243	685,004	716,519	809,082
Undivided profits & reserve for contingencies & other capital reserves	658,442	669,563	723,614	786,960
TOTAL EQUITY CAPITAL	1,646,725	1,699,155	1,797,957	1,959,366
TOTAL LIABILITIES AND EQUITY CAPITAL	$24,040,772	$25,556,502	$27,505,670	$29,923,039
	National chartered			
LIABILITIES				
Demand deposits of individuals, partnerships and corporations	$ 4,888,765	$ 5,114,339	$ 4,177,423	$ 5,012,245
Time & savings deposits of individuals, partnerships and corporations	13,920,456	14,869,068	16,973,845	18,271,691
Deposits of United States government	43,926	53,514	37,325	46,882
Deposits of States and political subdivisions in the United States	1,837,227	1,970,495	1,796,847	1,753,869
All other deposits	1,875,557	1,997,659	1,308,774	1,315,935
Certified and officers' checks	586,665	225,761	211,151	222,016
TOTAL DEPOSITS	$23,152,596	$24,230,836	$24,505,365	$26,622,638

TABLE XXII-6. NUMBER OF BANKS OPERATING IN AND BANKING OFFICES LOCATED IN MICHGAN, BY COUNTY: 30 JUNE 1983

County	Banks	Banking offices	County	Banks	Banking offices
Alcona	2	3	Lake	1	2
Alger	3	6	Lapeer	8	22
Allegan	10	25	Leelanau	3	7
Alpena	3	13	Lenawee	12	34
Antrim	7	11	Livingston	8	28
Arenac	5	7	Luce	2	2
Baraga	2	2	Mackinac	3	7
Barry	6	7	Macomb	27	153
Bay	10	43	Manistee	2	11
Benzie	5	6	Marquette	7	27
Berrien	10	54	Mason	4	9
Branch	5	17	Mecosta	4	14
Calhoun	10	37	Menominee	4	10
Cass	6	14	Midland	5	21
Charlevoix	6	13	Missaukee	3	4
Cheboygan	2	10	Monroe	8	32
Chippewa	4	14	Montcalm	9	22
Clare	4	9	Montmorency	2	3
Clinton	5	16	Muskegon	8	35
Crawford	3	6	Newaygo	7	10
Delta	6	14	Oakland	41	276
Dickinson	6	12	Oceana	4	7
Eaton	10	23	Ogemaw	7	8
Emmet	6	17	Ontonagon	3	5
Genesee	10	98	Osceola	6	7
Gladwin	3	6	Oscoda	1	2
Gogebic	4	6	Otsego	2	7
Grand Traverse	5	30	Ottawa	13	53
Gratiot	5	14	Presque Isle	4	4
Hillsdale	6	15	Roscommon	3	8
Houghton	5	14	Saginaw	10	59
Huron	10	21	St. Clair	8	39
Ingham	14	65	St. Joseph	8	25
Ionia	7	17	Sanilac	9	19
Iosco	3	11	Schoolcraft	2	4
Iron	4	8	Shiawassee	7	23
sabella	8	20	Tuscola	13	23
Jackson	7	50	Van Buren	9	18
Kalamazoo	8	59	Washtenaw	13	75
Kalkaska	3	4	Wayne	29	418
Kent	22	144	Wexford	3	13
Keweenaw	1	1	TOTAL	374	2,508

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, *Financial Institutions Sorted by County*, June 30, 1983.

TABLE XXII-7. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN FINANCE, INSURANCE, AND REAL ESTATE AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

County	Percentage		County	Percentage	
	1973	1983		1973	1983
Eaton	2.68	9.19	Manistee	2.55	2.97
Livingston	6.48	6.99	Isabella	1.95	2.96
Montmorency	3.27	6.36	Oceana	2.2[illegible]	2.96
Calhoun	(D)	6.06	Antrim	2.43	2.95
Oakland	3.93	6.01	Ontonagon	1.21	2.93
Missaukee	3.86	5.77	Delta	3.18	2.88
Gladwin	8.42	5.72	Otsego	2.31	2.87
Houghton	5.48	5.50	Clinton	2.94	2.87
Grand Traverse	4.08	5.43	Branch	2.23	2.85
Lake	3.27	5.27	Shiawassee	2.32	2.81
Roscommon	5.63	5.16	Gratiot	2.22	2.69
Wayne	4.70	5.16	Marquette	1.99	2.65
Barry	(D)	4.93	Hillsdale	(D)	2.61
Ingham	3.98	4.80	Lapeer	2.55	2.58
Arenac	2.58	4.75	Tuscola	1.43	2.57
Kent	3.93	4.44	Schoolcraft	3.07	2.52
Gogebic	2.71	4.30	Iosco	1.78	2.43
Iron	3.35	3.93	Macomb	1.53	2.35
Sanilac	1.97	3.90	Washtenaw	1.93	2.34
Clare	3.75	3.75	Ottawa	1.86	2.33
Emmet	2.70	3.72	Mackinac	1.42	2.30
Huron	1.91	3.57	Genesee	1.96	2.24
Menominee	1.87	3.48	Van Buren	(D)	2.24
Wexford	2.98	3.45	Muskegon	2.08	2.20
Newaygo	2.66	3.44	Baraga	(D)	2.11
Chippewa	2.00	3.42	Montcalm	1.96	2.08
Crawford	3.46	3.39	Ogemaw	1.78	2.00
Saginaw	2.69	3.37	Monroe	1.92	1.98
Mecosta	2.98	3.36	Presque Isle	1.40	1.95
Alger	2.51	3.30	St. Joseph	2.15	1.88
Berrien	2.33	3.29	Midland	1.20	1.56
Cheboygan	3.77	3.26	Kalkaska	(D)	1.50
St. Clair	2.80	3.25	Osceola	1.28	1.47
Bay	2.21	3.23	Allegan	0.92	1.34
Kalamazoo	(D)	3.15	Luce	1.59	1.24
Jackson	2.15	3.10	Leelanau	(D)	1.17
Cass	2.01	3.09	Alcona	(D)	0.55
Charlevoix	2.65	3.08	Alpena	(D)	(D)
Mason	2.63	3.06	Dickinson	1.72	(D)
Ionia	2.23	3.05	Keweenaw	(D)	(D)
Lenawee	1.74	3.01			
Oscoda	(D)	2.99	Michigan	3.50	4.18
Benzie	2.50	2.98	United States	5.18	6.39

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XXII-8. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN FINANCE, INSURANCE, AND REAL ESTATE: 1982-1983

	Percentage change			Percentage change	
County	1973-1983	1982-1983	County	1973-1983	1982-1983
Kalkaska	(D)	283	Marquette	169	8
Alger	140	32	Jackson	141	8
Oscoda	(D)	20	Osceola	115	8
Clinton	111	20	Hillsdale	(D)	8
Leelanau	(D)	19	Wayne	64	7
Isabella	257	18	Iron	158	7
Roscommon	98	16	Branch	141	7
Antrim	101	16	Grand Traverse	265	7
Kalamazoo	(D)	15	Houghton	116	7
Emmet	197	15	Newaygo	153	6
Macomb	180	15	Ontonagon	107	6
Berrien	122	14	Tuscola	199	6
Eaton	562	14	Cheboygan	65	6
Presque Isle	145	14	Gratiot	103	6
Livingston	170	14	Schoolcraft	69	6
Oakland	257	14	Lapeer	101	6
Benzie	134	13	Luce	79	6
Gogebic	148	13	Clare	112	6
Baraga	(D)	12	Huron	189	6
Cass	173	12	St. Clair	142	6
Ingham	177	12	Muskegon	93	5
Washtenaw	195	12	Charlevoix	139	5
Lake	115	12	Missaukee	137	5
Allegan	198	11	Van Buren	(D)	5
Kent	158	11	Crawford	108	4
Menominee	288	11	Delta	84	4
Montcalm	148	11	Ogemaw	145	4
Mason	110	11	Arenac	245	3
Oceana	144	11	Saginaw	125	2
Mackinac	225	11	Shiawassee	106	2
Otsego	223	11	Calhoun	(D)	2
Ottawa	207	10	Chippewa	108	1
Genesee	122	10	Manistee	151	1
Iosco	147	10	Mecosta	131	1
Gladwin	34	10	Montmorency	178	-4
Ionia	142	10	Wexford	162	-10
Sanilac	180	9	Alcona	(D)	-21
St. Joseph	65	9	Alpena	(D)	(D)
Monroe	130	9	Dickinson	(D)	(D)
Barry	(D)	9	Keweenaw	(D)	(D)
Lenawee	160	9			
Bay	163	9	Michigan	121	10
Midland	203	8	United States	186	16

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Withheld to avoid disclosing data for individual companies.

TABLE XXII-5. LIABILITIES AND EQUITY CAPITAL OF ALL COMMERCIAL BANKS IN MICHIGAN: 31 DECEMBER 1980, 1981, 1982, AND 1983 (cont.)

(In thousands of dollars)

Liabilities and equity capital	1980	1981	1982	1983
Federal funds purchased and securities sold under agreements to repurchase	$ 2,821,136	$ 2,984,207	$ 3,292,166	$ 3,988,046
Interest bearing demand notes (note balances) issued to U.S. Treasury and other liabilities for borrowed money	446,366	565,042	663,236	358,286
Mortgage indebtedness and liability for capitalized leases	42,359	42,722	42,781	45,084
All other liabilities	962,784	1,191,082	994,310	966,642
TOTAL LIABILITIES	$27,425,241	$29,013,889	$29,497,858	$31,980,696
Subordinated notes and debentures	$ 97,407	$ 78,919	$ 69,159	$ 72,684
EQUITY CAPITAL				
Preferred stock	$ 720	$ 720	$ 720	$ 720
Common stock	357,768	360,183	358,943	358,192
Surplus	597,428	590,425	603,213	624,931
Undivided profits & reserve for contingencies and other capital reserves	872,309	903,361	951,521	1,004,683
TOTAL EQUITY CAPITAL	1,828,225	1,854,689	1,914,397	1,988,526
TOTAL LIABILITIES AND EQUITY CAPITAL	$29,350,873	$30,947,497	$31,481,414	$34,041,906

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, Annual Report, (Lansing, Michigan: annual publication).

a. Includes deposits of State money--Michigan.

TABLE XXII-9. DEPOSITS IN COMMERCIAL BANKS AND BANKING OFFICES IN MICHIGAN, BY TYPE OF DEPOSIT, BY COUNTY: 30 JUNE 1983

County	Number of		Amount of deposits in thousands of dollars				
	Banks	Banking offices	Total deposits[a]	Demand[b]	Savings[b]	Time[b]	Public funds
Alcona	2	3	$ 28,776	$ 2,895	$ 11,509	$ 12,245	$ 1,831
Alger	3	6	41,917	3,506	13,292	21,566	3,102
Allegan	10	25	262,227	34,864	95,933	109,994	20,797
Alpena	3	13	173,321	16,934	59,475	77,559	17,300
Antrim	7	11	91,850	9,347	36,037	38,673	7,132
Arenac	5	7	80,353	5,953	27,816	41,195	4,531
Baraga	2	2	38,525	4,218	14,142	17,535	2,354
Barry	6	7	104,845	13,777	46,731	35,689	8,317
Bay	10	43	519,871	56,835	207,604	231,085	20,046
Benzie	5	6	62,010	5,961	22,168	29,152	4,140
Berrien	10	54	689,354	105,419	215,160	303,727	60,801
Branch	5	17	178,260	20,459	56,872	79,879	19,985
Calhoun	10	37	574,308	97,645	198,070	212,315	57,955
Cass	6	14	145,371	17,204	50,273	64,229	12,289
Charlevoix	6	13	115,805	13,175	43,658	48,340	9,684
Cheboygan	2	10	109,467	12,073	39,837	49,429	7,795
Chippewa	4	14	143,497	14,825	45,029	70,627	11,761
Clare	4	9	115,382	8,019	46,104	51,155	9,562
Clinton	5	16	172,010	15,973	56,775	71,042	23,281
Crawford	3	6	42,361	4,931	11,856	19,657	5,570
Delta	6	14	210,867	19,682	65,828	98,005	25,925
Dickinson	6	12	143,678	20,468	51,056	62,797	8,656
Eaton	10	23	284,942	38,157	107,985	109,080	27,660
Emmet	6	17	202,776	21,701	73,270	86,250	19,361
Genesee	10	98	2,159,366	252,549	777,320	947,965	153,541

TABLE XXII-9. DEPOSITS IN COMMERCIAL BANKS AND BANKING OFFICES IN MICHIGAN, BY TYPE OF DEPOSIT, BY COUNTY: 30 JUNE 1983 (cont.)

	Number of		Amount of deposits in thousands of dollars				
County	Banks	Banking offices	Total deposits[a]	Demand[b]	Savings[b]	Time[b]	Public funds
Gladwin	3	6	75,936	7,641	27,052	31,094	9,402
Gogebic	4	6	128,647	11,029	42,679	65,976	8,360
Grand Traverse	5	30	403,682	54,790	147,895	157,792	37,216
Gratiot	5	14	228,582	21,006	80,212	105,604	19,770
Hillsdale	6	15	196,585	19,983	73,798	88,517	12,994
Houghton	5	14	148,715	17,799	55,417	65,783	8,021
Huron	10	21	245,156	17,266	83,992	124,044	18,302
Ingham	14	65	1,427,321	263,763	476,488	566,466	96,399
Ionia	7	17	192,824	18,632	73,042	86,661	13,044
Iosco	3	11	107,242	12,298	37,802	46,040	9,940
Iron	4	8	87,266	5,871	31,457	41,374	7,872
Isabella	8	20	194,817	24,065	78,776	82,006	8,594
Jackson	7	50	569,533	93,206	221,250	205,440	44,119
Kalamazoo	8	59	840,042	164,023	297,739	327,852	37,204
Kalkaska	3	4	43,034	3,702	15,078	16,838	7,033
Kent	22	144	2,605,557	448,559	849,567	1,042,692	211,934
Keweenaw	1	1	6,412	542	2,809	2,973	88
Lake	1	2	15,350	1,759	6,985	2,870	3,635
Lapeer	8	22	261,436	23,848	78,817	114,893	41,130
Leelanau	3	7	58,630	5,813	21,435	24,500	6,753
Lenawee	12	34	483,715	59,104	173,216	211,669	36,326
Livingston	8	28	298,436	40,946	119,097	115,868	19,308
Luce	2	2	27,401	2,847	10,668	9,706	3,975
Mackinac	3	7	49,185	6,162	16,685	20,323	5,469
Macomb	27	153	3,277,208	405,245	1,336,558	1,331,907	184,273

TABLE XXII-9. DEPOSITS IN COMMERCIAL BANKS AND BANKING OFFICES IN MICHIGAN, BY TYPE OF DEPOSIT, BY COUNTY: 30 JUNE 1983 (cont.)

	Number of		Amount of deposits in thousands of dollars				
County	Banks	Banking offices	Total deposits[a]	Demand[b]	Savings[b]	Time[b]	Public funds
Manistee	2	11	141,983	12,218	60,786	55,644	12,760
Marquette	7	25	320,982	30,960	108,584	151,932	24,952
Mason	4	9	120,634	13,367	42,462	58,724	5,296
Mecosta	4	14	124,385	13,842	39,681	54,114	15,750
Menominee	4	10	129,099	13,862	41,607	62,678	8,436
Midland	5	21	360,594	41,932	138,202	137,547	38,991
Missaukee	3	4	49,143	4,368	17,103	22,371	4,828
Monroe	8	32	484,320	50,140	189,338	184,577	55,165
Montcalm	9	22	226,057	24,429	77,154	111,840	11,596
Montmorency	2	3	49,530	3,660	16,182	26,512	2,932
Muskegon	8	35	636,378	72,623	265,786	262,863	29,497
Newaygo	7	10	130,683	13,608	50,188	56,298	9,647
Oakland	41	276	6,166,618	1,032,341	2,458,663	2,299,688	325,427
Oceana	4	7	80,985	7,857	30,095	33,160	9,699
Ogemaw	7	8	88,315	7,826	33,819	38,821	7,430
Ontonagon	3	5	44,631	4,612	14,970	19,787	4,988
Osceola	6	7	83,974	7,017	28,519	39,527	8,477
Oscoda	1	2	28,598	2,603	9,970	13,486	2,357
Otsego	2	7	89,774	10,374	32,353	37,395	8,685
Ottawa	13	53	788,670	99,317	270,096	333,640	78,892
Presque Isle	4	4	65,999	4,876	20,579	34,620	5,846
Roscommon	3	8	114,188	9,871	39,308	54,765	9,628
Saginaw	10	59	1,019,104	118,122	387,006	393,633	101,166
St. Clair	8	39	663,661	73,028	249,670	295,082	38,482
St. Joseph	8	25	269,300	30,797	87,759	126,608	22,221

TABLE XXII-9. DEPOSITS IN COMMERCIAL BANKS AND BANKING OFFICES IN MICHIGAN, BY TYPE OF DEPOSIT, BY COUNTY: 30 JUNE 1983 (cont.)

	Number of		Amount of deposits in thousands of dollars				
County	Banks	Banking offices	Total deposits[a]	Demand[b]	Savings[b]	Time[b]	Public funds
Sanilac	9	19	227,566	13,633	80,970	116,120	15,515
Schoolcraft	2	4	57,846	5,100	17,414	26,406	8,522
Shiawassee	7	23	298,297	26,914	111,832	140,760	16,322
Tuscola	13	23	302,141	25,111	103,241	144,916	26,505
Van Buren	9	18	238,870	27,976	87,435	94,629	27,465
Washtenaw	13	75	1,181,513	190,013	468,867	401,680	103,583
Wayne	29	418	14,729,934	3,122,204	4,599,457	5,425,558	873,534
Wexford	3	13	178,565	14,270	65,775	81,794	15,131
TOTAL	374	2,508	48,156,188	7,675,340	16,977,185	19,115,253	3,324,262

SOURCE: Federal Deposit Insurance Corporation, Banks and Branches June 30, 1983, Summary of Deposits in all Commercial and Mutual Savings Banks, (Washington, D.C.: annually), Table 8.

a. Includes U.S. government deposits, deposits of foreign governments, certified checks, and other types of deposits not shown separately.
b. Individuals, partnerships, and corporations.

TABLE XXII-10. NUMBER, ASSETS, FIRST MORTGAGE LOANS, AND SAVINGS CAPITAL EARNINGS OF MICHIGAN INSURED SAVINGS AND LOAN ASSOCIATIONS, 31 DECEMBER: 1957-1983

(In thousands of dollars)

Year	Number of associations	Total assets	Mortgage loans and contracts	Deposit accounts earnings
1957	74	1,250,075	974,758	1,121,500
1958	73	1,434,317	1,115,464	1,281,532
1959	73	1,643,904	1,292,979	1,456,198
1960	73	1,847,920	1,497,207	1,650,087
1961	73	2,054,557	1,650,398	1,830,714
1962	73	2,356,491	1,893,083	2,100,912
1963	72	2,705,419	2,207,693	2,400,485
1964	72	3,093,414	2,557,042	2,773,569
1965	72	3,340,838	2,845,584	2,944,913
1966	71	3,424,042	2,925,831	2,996,855
1967	71	3,719,205	3,174,279	3,285,199
1968	70	3,979,388	3,417,190	3,508,187
1969	70	4,288,115	3,695,319	3,677,844
1970	68	4,830,457	4,094,409	4,205,130
1971	65	5,769,871	4,989,408	5,012,060
1972	65	6,842,107	5,798,053	6,043,166
1973	65	7,691,953	6,596,649	6,765,835
1974	66	8,478,123	7,224,272	7,334,501
1975	67	9,753,163	8,092,134	8,642,753
1976	66	11,364,523	9,379,124	10,180,818
1977	66	13,263,886	11,052,458	11,768,151
1978	65	15,260,981	12,990,752	13,252,982
1979	65	16,924,215	14,645,621	14,447,034
1980	63	18,430,290	15,437,779	15,936,987
1981	59	18,706,000	15,569,000	15,934,000
1982	53	23,506,000	14,790,000	18,620,000
1983	50	27,513,000	15,199,000	20,853,000

SOURCE: Federal Home Loan Bank Board, Trends in the Savings and Loan Field, 1957 through 1970 (name was changed in 1971); Asset and Liability Trends, 1971 through 1978 (Washington, D.C.: annually); Federal Home Loan Bank Board, Savings & Home Financing Source Book, (Washington, D.C.: annually), Table 8.

TABLE XXII-11. TOTAL ASSETS OF SAVINGS AND LOAN ASSOCIATIONS IN MICHIGAN, BY COUNTY: 31 DECEMBER 1981, 1982, AND 1983

County and association[a]	Total assets 1981	1982	1983
Alpena			
First Federal S&L, Alpena	$ 52,517,738	$ 53,448,816	$ 57,349,055
Barry			
Hastings S&L, Hastings	31,390,835	30,847,708	32,129,992
Bay			
Mutual S&L, Bay City	452,469,426	488,281,368	806,786,105
Berrien			
LaSalle Federal S&L, Buchanan	95,596,131	94,447,910	95,059,975
New Buffalo S&L, New Buffalo	29,726,740	30,490,392	33,201,131
People Savings Assn., St. Joseph	121,092,513	123,119,299	126,960,851
S. Joseph S&L, St. Joseph	118,094,835	115,459,184	136,138,857
Branch			
Branch County Federal S&L, Coldwater	61,507,626	62,207,902	66,365,647
Calhoun			
Homestead S&L, Albion	20,967,777	22,960,729	23,873,173
Marshall S&L, Marshall	21,678,032	22,130,943	25,198,830
Peoples S&L, Battle Creek	97,540,730	96,631,454	98,284,966
Cass			
First Savings Assn., Dowagiac	b	b	b
Eaton			
Eaton Federal S&L, Charlotte	70,080,425	70,263,207	75,683,736
Genesee			
First Federal S&L, Flint	c	c	c
Grand Traverse			
Northwestern S&L, Traverse City	76,653,584	77,676,365	77,563,506
Houghton			
Detroit & Northern S&L, Hancock	917,776,000	1,214,292,216	1,113,494,596
Ingham			
Capitol Federal S&L, Lansing	479,492,746	468,542,828	453,762,555
First State Savings Assn., East Lansing	d	d	d
Union Federal S&L, Lansing	117,425,066	117,621,908	129,575,440
Ionia			
Belding S&L, Belding	e	e	e
Iron			
Iron S&L, Iron River	6,463,575	6,709,792	7,257,790
Jackson			
First Federal S&L, Jackson	106,363,574	105,173,066	i
Security S&L, Jackson	148,521,898	169,960,506	199,211,821
Kalamazoo			
Fidelity Federal S&L, Kalamazoo	166,676,251	165,503,385	182,018,913
First Federal S&L, Kalamazoo	340,289,702	340,846,742	494,935,926

TABLE XXII-11. TOTAL ASSETS OF SAVINGS AND LOAN ASSOCIATIONS IN MICHIGAN, BY COUNTY: 31 DECEMBER 1981, 1982, AND 1983 (cont.)

County and association[a]	Total assets		
	1981	1982	1983
Kent			
Grand Rapids Mutual Federal S&L, Grand Rapids	$183,828,252	$181,391,379	$212,871,187
Kentwood S&L, Kentwood	d	d	d
Mutual Home Federal S&L, Grand Rapids	316,574,401	318,453,970	353,570,837
West Side Federal S&L, Grand Rapids	61,826,406	60,557,553	64,331,337
Lenawee			
First Federal S&L, Adrian	156,127,047	159,510,388	168,031,020
Livingston			
First Federal S&L, Howell	135,529,494	130,310,017	140,091,376
Macomb			
Macomb S&L, St. Clair Shores	18,172,602	18,413,666	19,455,422
Central State S&L, Mt. Clemens	9,466,633	36,438,059	72,854,413
Mason			
Ludington Federal S&L, Ludington	29,480,617	29,377,112	31,662,191
Midland			
Wolverine Federal S&L, Midland	67,616,960	69,468,824	84,351,413
Monroe			
Peoples Savings Bank, Monroe	282,136,379	290,472,263	292,882,514
Muskegon			
Muskegon Federal S&L, Muskegon	233,892,955	238,782,151	226,666,739
Oakland			
American Federal S&L, Southfield	867,408,926	f	f
Bloomfield S&L Assoc., Birmingham	--	2,854,537	375,000,000
Empire of America, FSA, Southfield	--	5,868,125,000	5,044,670,000
First Federal Savings Bank & Trust Pontiac	751,787,660	775,806,231	801,975,147
Metropolitan Savings Assn., Farmington Hills	424,227,116	395,920,897	f
Standard Federal S&L, Troy	3,474,520,821	3,775,707,071	4,826,399,000
Surety Federal S&L, Southfield	g	g	g
Ottawa			
Ottawa S&L, Holland	164,152,767	170,275,593	180,888,978
Saginaw			
Family Federal S&L, Saginaw	420,375,021	401,198,255	388,394,134
First S&L, Saginaw/United Federal S&L Assn.	605,578,430	h	h
Landmark S&L, Saginaw	b	b	b
St. Clair			
Citizens Federal S&L, Port Huron	201,835,794	210,859,923	239,990,029
St. Joseph			
Sturgis S&L, Sturgis	47,658,028	44,490,103	45,594,216
Three Rivers S&L, Three Rivers	65,916,776	67,299,667	72,292,602

TABLE XXII-11. TOTAL ASSETS OF SAVINGS AND LOAN ASSOCIATIONS IN MICHIGAN, BY COUNTY: 31 DECEMBER 1981, 1982, AND 1983 (cont.)

County and association[a]	Total assets		
	1981	1982	1983
Washtenaw			
Great Lakes Federal S&L, Ann Arbor[b]	$899,933,324	$1,553,204,559	$1,744,378,762
First Savings Assn., Ypsilanti	22,072,339	22,463,980	30,617,547
USM S&L Association, Ann Arbor	60,965,867	59,314,862	106,444,827
Wayne			
Colonial Federal S&L, Grosse Pte. Woods	208,357,950	194,352,749	193,370,516
Dearborn Federal S&L, Dearborn	140,013,885	134,220,911	140,181,125
Detroit Federal S&L, Detroit	109,113,325	128,830,371	132,625,376
Down River Federal S&L, Taylor	380,452,348	404,052,143	425,359,788
First Dearborn, F.A.,Dearborn	235,901,889	239,121,051	245,483,001
First Federal of MI, Detroit	3,953,244,262	5,228,907,139	7,566,859,836
Guaranty Federal S&L, Taylor	143,621,520	140,075,192	177,556,575
Home Federal S&L, Detroit	21,664,461	21,504,779	21,344,563
Peoples Federal S&L, Detroit	b	b	b

SOURCE: Roster of Members, Federal Home Loan Bank of Indianapolis, (Indianapolis: annually).

NOTE: S&L stands for savings and loan.

a. There are no savings and loan associations headquartered in counties not listed, although there may be branch offices of Michigan's 65 savings and loan associations in these counties.
b. Merged with Standard Federal S&L, Troy.
c. Merged with Family Federal S&L, Saginaw.
d. Merged with First Federal of Michigan, Detroit.
e. Merged with Mutual Home Federal S&L, Grand Rapids.
f. Acquired by Empire of America, FSA.
g. Merged with First Federal Savings Bank and Trust, Pontiac.
h. Merged with Great Lakes Federal S&L, Ann Arbor.
i. Merged with First Federal Savings and Loan Association of Kalamazoo.

TABLE XXII-12. MORTGAGE LOANS MADE BY INSURED SAVINGS AND LOAN ASSOCIATIONS IN MICHIGAN: 1968-1983

(In thousands of dollars)

			Other purposes		
Year	Home construction	Home purchase	Construction and purchase of other real property	Refinancing and all other	Total loans closed
1968	115,835	345,650	46,189	85,213	592,886
1969	113,206	337,682	60,902	80,226	592,016
1970	97,045	362,068	104,978	83,050	647,140
1971	198,218	689,750	137,024	201,379	1,226,371
1972	232,521	825,513	175,907	240,319	1,474,260
1973	281,041	824,915	142,900	170,910	1,419,766
1974	166,197	681,288	129,048	161,327	1,137,860
1975	174,355	924,529	127,557	200,978	1,427,418
1976	257,075	1,381,946	145,396	269,399	2,053,816
1977	392,000	1,997,000	75,000	357,000	2,821,000
1978	471,000	2,341,000	69,000	356,000	3,237,000
1979	459,000	2,081,000	43,000	298,000	2,881,000
1980	228,000	1,079,000	80,000	253,000	1,579,000
1981	104,000	512,000	23,000	162,000	803,000
1982	46,000	302,000	46,000	113,000	506,000
1983	226,000	1,538,000	262,000	349,000	2,374,000

SOURCE: Federal Home Loan Bank Board, Savings and Home Financing Source Book, 1968 through 1983 (Washington, D.C.: annually), Table 15.

TABLE XXII-13. NUMBER OF INSURED SAVINGS AND LOAN ASSOCIATIONS LOCATED AND OPERATING IN MICHIGAN, BY COUNTY: 30 JUNE 1984

County	Associations	Offices	County	Associations	Offices
Alcona	0	0	Lake	0	0
Alger	0	0	Lapeer	3	4
Allegan	5	7	Leelanau	0	0
Alpena	2	3	Lenawee	2	8
Antrim	0	0	Livingston	3	8
Arenac	1	1	Luce	0	0
Baraga	0	0	Mackinac	0	0
Barry	4	4	Macomb	10	47
Bay	3	11	Manistee	1	1
Benzie	0	0	Marquette	1	2
Berrien	5	22	Mason	2	2
Branch	2	4	Mecosta	1	2
Calhoun	5	14	Menominee	1	1
Cass	2	4	Midland	3	7
Charlevoix	2	2	Missaukee	0	0
Cheboygan	1	1	Monroe	3	10
Chippewa	1	1	Montcalm	1	1
Clare	2	2	Montmorency	0	0
Clinton	2	3	Muskegon	4	9
Crawford	1	1	Newaygo	1	1
Delta	1	1	Oakland	8	83
Dickinson	1	1	Oceana	1	1
Eaton	6	11	Ogemaw	1	1
Emmet	2	2	Ontonagon	0	0
Genesee	2	19	Osceola	1	1
Gladwin	1	2	Oscoda	1	1
Gogebic	1	1	Otsego	1	2
Grand Traverse	2	3	Ottawa	5	12
Gratiot	2	3	Presque Isle	1	1
Hillsdale	2	3	Roscommon	1	1
Houghton	1	2	Saginaw	6	21
Huron	2	4	St. Clair	2	10
Ingham	4	16	St. Joseph	5	8
Ionia	3	4	Sanilac	2	3
Iosco	2	2	Schoolcraft	0	0
Iron	1	1	Shiawassee	2	5
Isabella	2	2	Tuscola	3	3
Jackson	4	12	Van Buren	7	8
Kalamazoo	6	23	Washtenaw	6	21
Kalkaska	1	1	Wayne	14	120
Kent	6	32	Wexford	2	2
Keweenaw	0	0			

SOURCES: Federal Home Loan Bank Board, FSLIC Savings and Loan Associations, June 30, 1984, Summary of Savings Accounts by Geographic Area (Washington, D.C.: 1985), Table 5.

TABLE XXII-14. STATE AND FEDERALLY CHARTERED CREDIT UNIONS IN MICHIGAN: 31 DECEMBER 1970-1984

(In thousands of dollars)

Year	Number	Membership[a]	Loans to members	Assets
		State		
1970	787	1,175,788	$ 814,870	$1,096,997
1971	754	1,199,578	837,039	1,248,321
1972	724	1,249,293	913,465	1,402,713
1973	706	1,303,827	1,014,893	1,501,612
1974	679	1,309,000	1,059,746	1,603,246
1975	656	1,374,000	1,179,342	1,820,193
1976	630	1,417,587	1,338,991	1,910,592
1977	611	1,498,260	1,744,297	2,297,283
1978	598	1,587,781	1,994,985	2,600,450
1979	584	1,631,809	1,963,821	2,712,000
1980	572	1,664,065	1,785,952	2,648,387
1981	560	1,721,655	1,842,651	3,002,950
1982	531	1,731,047	1,833,800	3,482,804
1983	516	1,714,766	1,951,603	3,970,002
1984	n.a.	n.a.	n.a.	n.a.
		Federal		
1970	372	631,940	415,800	507,796
1971	364	654,871	461,374	567,274
1972	368	690,887	520,926	644,033
1973	363	737,751	591,280	724,900
1974	365	779,534	632,718	784,452
1975	367	809,200	710,035	877,520
1976	358	874,040	861,099	1,018,098
1977	352	962,801	1,045,652	1,193,701
1978	350	1,099,838	1,216,740	1,371,054
1979	345	1,195,568	1,211,426	1,437,921
1980	331	921,310	1,058,326	1,545,872
1981	303	1,251,615	1,066,466	1,557,838
1982	284	1,263,502	1,023,642	1,715,773
1983	278	1,110,224	1,195,819	2,069,516
1984	260	1,125,490	1,504,712	2,384,663

SOURCE: National Credit Union Administration, Annual Report, (Washington, D.C.: annually), Michigan Department of Commerce, Financial Institutions Bureau, Abstracts of Reports of Credit Unions, 1970 through 1976; and Michigan Department of Commerce, Financial Institutions Bureau, Annual Report, 1977 through 1984 (Lansing: annually).

a. Excludes Central Credit Union of Michigan.
n.a.: Data not available.

TABLE XXII-15. NUMBER, LOANS OUTSTANDING, AND AVERAGE INVESTED ASSETS OF MICHIGAN SMALL LOAN COMPANIES: 31 DECEMBER 1960-1983

Year	Number of licensees	Loans outstanding	Average invested assets
		(In thousands of dollars)	
1960	548	$177,036	$187,369
1961	584	177,369	188,741
1962	603	181,240	186,000
1963	608	248,081	205,070
1964	634	281,583	271,983
1965	655	304,700	301,897
1966	675	323,872	323,615
1967	677	334,674	338,073
1968	691	345,413	347,609
1969	676	357,969	362,409
1970	626	346,625	365,306
1971	595	332,115	381,379
1972	597	395,160	397,046
1973	593	412,348	433,592
1974	550	391,783	445,643
1975	461	349,687	406,339
1976	415	326,921	356,701
1977	387	332,526	351,956
1978	375	341,166	358,333
1979	350	422,111	401,148
1980	271	342,213	402,574
1981	165	231,386	303,003
1982	104	138,111	195,952
1983	88	100,331	190,994

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, *Analysis and Recapitulation of Reports of Regulatory Loan Licensees*, 1974 and 1978 (Lansing: annually), p. 5 (1978); Michigan Department of Commerce, *Financial Institutions Bureau*, Annual Report 1983, p. 149.

TABLE XXII-16. CONSOLIDATED BALANCE SHEET OF MICHIGAN SMALL LOAN COMPANIES: 31 DECEMBER 1981-1983

(In thousands of dollars)

	1981	1982	1983
ASSETS			
Cash on hand and in bank	1,025	721	654
Loans receivable (net of reserve for bad debts)	231,386	138,111	100,331
Real estate (less depreciation)	265	244	0
Furniture, fixtures, and equipment (less depreciation)	834	444	0
Deferred charges and prepaid expenses	624	98	117
Other assets	979	991	594
Total assets used in the Regulatory Loan Business	235,113	140,609	101,696
Other assets not used in the Regulatory Loan Business	67,890	55,343	89,298
TOTAL ASSETS	303,003	195,952	190,994
LIABILITIES AND CAPITAL			
Accounts and notes payable:			
Banks	5,526	5,387	6,415
Due to parent company of affiliate	160,479	63,413	38,409
Other short-term notes and accounts	12,589	10,060	10,049
Bonds and long-term notes	6,999	6,777	6,325
Other liabilities:			
Accrued expenses	482	1,585	468
Dealer reserves	1,375	1,262	780
Other	205	4,791	1,581
Expense reserves:			
Reserves for licenses and taxes	(448)	(147)	148
Other expense reserves	106	79	1,296
Reserve for bad debts	6,502	4,909	2,047
Branch office capital	92,266	85,215	109,699
Net worth	239	198	648
Capital stock:			
Preferred	915	915	817
Common	2,156	1,890	1,733
Appropriated surplus or capital reserves	10,629	2,760	4,377
Earned surplus (including undivided profits)	2,983	6,858	6,202
TOTAL LIABILITIES AND CAPITAL	303,003	195,952	190,994

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, Annual Report, (Lansing: annually).

TABLE XXII-17. LIFE INSURANCE IN FORCE IN MICHIGAN AND THE UNITED STATES: 1969-1983

(In millions of dollars)

Year	Ordinary	Group	Industrial	Credit	Total
			Michigan		
1969	27,097	27,936	1,353	4,415	60,801
1970	28,846	31,076	1,321	4,510	65,753
1971	31,012	34,615	1,340	5,131	72,098
1972	33,314	37,602	1,340	5,847	78,103
1973	35,867	43,569	1,318	5,460	86,214
1974	38,188	49,309	1,287	5,306	94,090
1975	40,093	55,184	1,265	5,494	102,036
1976	43,323	61,538	1,218	5,765	111,844
1977	46,995	67,763	1,187	6,031	121,976
1978	51,528	77,264	1,170	7,375	137,337
1979	56,488	89,358	1,187	7,689	154,722
1980	60,406	95,268	1,169	6,477	163,320
1981	65,020	103,999	1,110	6,744	176,873
1982	70,677	109,778	1,036	6,188	187,679
1983	79,444	112,260	998	5,993	198,695
			United States		
1969	682,453	488,864	38,614	74,598	1,284,529
1970	734,730	551,357	38,644	77,392	1,402,123
1971	792,318	589,883	39,202	81,931	1,503,334
1972	853,911	640,689	39,975	93,410	1,627,985
1973	928,192	708,322	40,632	101,154	1,778,300
1974	1,009,038	827,018	39,441	109,623	1,985,120
1975	1,083,421	904,695	39,423	112,032	2,139,571
1976	1,177,672	1,002,647	39,175	123,569	2,343,063
1977	1,289,321	1,115,047	39,045	139,402	2,582,815
1978	1,425,095	1,243,994	38,080	163,081	2,870,250
1979	1,585,878	1,419,418	37,794	179,250	3,222,340
1980	1,760,474	1,579,355	35,994	165,215	3,541,038
1981	1,978,080	1,888,612	34,547	162,356	4,063,595
1982	2,216,388	2,066,361	32,766	161,144	4,476,659
1983	2,544,275	2,219,573	31,354	170,659	4,965,861

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, (Washington, D.C.: annually).

TABLE XXII-18. PAYMENTS TO LIFE INSURANCE BENEFICIARIES IN MICHIGAN AND THE UNITED STATES: 1974-1983

	Ordinary		Group		Industrial		Total	
Year	Number (1,000)	Amount ($1,000)	Number (1,000)	Amount ($1,000)	Number (1,000)	Amount ($1,000)	Number (1,000)	Amount ($1,000)
				Michigan				
1974	41.3	158,800	52.9	250,200	27.0	15,600	121.2	424,600
1975	42.0	162,100	51.5	254,600	27.1	15,600	120.6	432,300
1976	41.7	165,900	50.1	265,000	26.1	15,500	117.9	446,400
1977	43.8	179,100	49.2	307,100	28.6	17,100	121.6	503,300
1978	43.1	190,600	50.2	324,700	26.6	16,600	119.9	531,900
1979	42.3	196,500	48.9	333,800	24.9	15,900	116.1	546,200
1980	42.3	202,700	48.6	370,800	25.4	16,500	116.3	590,000
1981	43.1	218,400	48.6	373,800	23.2	16,300	114.9	608,500
1982	44.1	225,600	47.3	405,000	24.4	17,000	115.8	647,600
1983	43.7	243,800	46.1	392,900	24.1	17,200	113.9	653,900
				United States				
1974	1,097	4,382,000	938	4,031,200	974	471,900	3,009	8,885,100
1975	1,098	4,473,600	906	4,256,000	922	462,500	2,926	9,192,100
1976	1,110	4,665,400	882	4,452,900	933	475,000	2,925	9,593,300
1977	1,098	4,907,500	860	4,812,900	910	475,300	2,869	10,195,700
1978	1,141	5,338,000	892	5,281,900	927	487,800	2,961	11,107,700
1979	1,120	5,576,400	893	5,708,900	881	480,400	2,894	11,765,700
1980	1,184	6,119,800	910	6,271,000	873	493,600	2,967	12,884,400
1981	1,221	6,662,600	981	7,014,400	806	447,000	3,008	14,154,000
1982	1,235	7,015,300	967	7,586,900	771	463,600	2,973	15,065,800
1983	1,246	7,324,100	908	7,865,300	765	470,300	2,919	16,659,700

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, (Washington, D.C.: annually).

TABLE XXII-19. ASSETS, CAPITAL, AND SURPLUS OF MICHIGAN INSURANCE COMPANIES: 31 DECEMBER 1981, 1982, AND 1983

Type of company	1981			1982			1983		
	Number of companies	Admitted assets ($1,000)	Capital and surplus ($1,000)	Number of companies	Admitted assets ($1,000)	Capital and surplus ($1,000)	Number of companies	Admitted assets ($1,000)	Capital and surplus ($1,000)
Property & liability ins.									
Stock	22	1,849,027	612,920	25	1,954,594	714,634	26	2,197,469	903,088
Mutual	28	2,090,274	341,481	27	2,205,185	699,347	26	2,366,516	723,481
Reciprocal exchanges	1	761,898	177,073	1	798,530	185,640	1	838,556	188,409
Funds and pools	3	248,833	66,459	3	268,531	103,384	3	281,623	108,767
Life insurance									
Stock	23	1,990,029	325,079	24	2,107,590	382,548	25	2,585,375	458,807
Mutual	4	553,803	27,646	4	582,171	29,213	4	639,035	43,272
Nonprofit medical, hospital, dental organizations, and associations	4	865,625	206,017	4	1,008,154	251,309	4	1,294,427	365,361
Fraternal benefit societies	3	145,912	28,708	3	154,271	30,706	3	167,257	32,968
Health maintenance organizations	n.a.	n.a.	n.a.	14	71,430	22,348	17	117,988	40,593
Farm Mutuals	5	2,286	2,066	5	2,570	2,382	5	2,791	297

SOURCE: Michigan Department of Licensing and Regulation, Insurance Bureau, Annual Statistical Report, (Lansing: annual publication).

NOTE: Nonprofit associations are a classification of "Life Insurance." Farm mutuals are not a classification of "Property & Liability Insurance." Instead, it stands alone.

TABLE XXII-20. SUMMARY OF MICHIGAN PREMIUMS AND LOSSES OF COMPANIES AND SOCIETIES OPERATING IN MICHIGAN: 1982 AND 1983

(Thousands of dollars)

Type of company	Total direct Michigan premiums[a]		Total direct Michigan losses[b]	
	1982	1983	1982	1983
Property and liability insurance companies				
Funds and pools, Michigan	51,081	44,073	55,433	56,897
Stock companies, Michigan	587,571	623,115	401,431	412,638
Stock companies, foreign	1,842,998	1,775,758	1,429,443	2,236,344
Mutual companies, Michigan	565,321	576,031	445,922	452,623
Mutual companies, foreign	542,653	560,184	400,486	435,314
Alien companies-U.S. branches	11,288	8,767	6,535	4,295
Reciprocal exchanges, Michigan	395,551	408,389	401,599	400,428
Reciprocal exchanges, foreign	80,079	84,981	64,262	80,199
TOTAL	4,076,542	4,081,298	3,191,328	4,078,738
Life insurance companies				
Stock companies				
Life insurance operation, Michigan	208,341	245,778	78,462	91,443
Life insurance operation, foreign	999,282	945,429	546,390	552,791
Casualty operations, Michigan	77,117	88,697	61,363	59,792
Casualty operations, foreign	576,640	593,543	440,602	430,784
Mutual companies				
Life insurance operations, Michigan	30,698	31,229	19,268	20,111
Life insurance operations, foreign	985,019	965,728	952,521	974,561
Casualty operations, Michigan	94,051	118,711	84,320	102,000
Casualty operations, foreign	369,551	341,229	317,904	241,890
Alien companies-U.S. branches				
Life insurance operations	118,631	115,861	89,514	95,312
Casualty operations	37,351	30,697	31,852	21,469
Fraternal benefit societies				
Life insurance operations, Michigan	8,116	8,781	3,080	26,503
Life insurance operations, foreign	56,169	59,954	25,486	30,280
Casualty operations, Michigan	41	60	16	18
Casualty operations, foreign	3,233	4,000	21,041	2,061
Nonprofit associations				
Life insurance operations	35	31	38	8
Casualty (excluding Blue Cross)	236,156	136,849	177,445	116,968
Blue Cross-Blue Shield of Michigan	2,936,199	3,099,527	2,767,622	2,878,095
TOTAL LIFE INSURANCE OPERATIONS	2,406,291	2,304,056	1,714,759	1,734,226
TOTAL CASUALTY OPERATIONS	4,330,339	4,409,253	3,902,165	3,850,998

SOURCE: Michigan Department of Licensing & Regulation, Insurance Bureau, Annual Statistical Report (Lansing: annually).

a. Casualty premiums are premiums earned.

b. Property, liability, and casualty losses are losses incurred. Life losses are losses paid.

TABLE XXII-21. RESIDENTIAL AND NONRESIDENTIAL MORTGAGES OWNED BY U.S. LIFE INSURANCE COMPANIES IN MICHIGAN AND THE UNITED STATES: 1969-1983

Year	Farm	Nonfarm F.H.A.	Nonfarm V.A.	Nonfarm conventional	Total
			Michigan (In thousands of dollars)		
1969	38,200	427,200	131,500	1,605,200	2,202,100
1970	36,600	407,000	119,700	1,696,800	2,260,100
1971	35,200	369,400	106,700	1,747,200	2,258,500
1972	33,400	331,900	95,600	1,815,500	2,276,400
1973	31,400	298,300	82,900	1,904,000	2,316,600
1974	30,800	227,100	74,600	2,040,700	2,423,200
1975	34,800	254,100	66,500	2,096,900	2,452,300
1976	49,400	228,500	59,500	2,146,800	2,484,200
1977	50,400	204,700	52,000	2,461,300	2,768,400
1978	64,700	192,800	44,800	2,562,700	2,865,000
1979	75,900	152,400	49,000	2,842,000	3,110,300
1980	79,600	141,000	35,800	3,038,800	3,295,000
1981	80,400	131,500	32,000	3,117,300	3,361,200
1982	80,400	n.a.	n.a.	3,221,700	3,302,100
1983	82,200	n.a.	n.a.	3,178,600	3,260,800
			United States (In millions of dollars)[a]		
1969	5,773	12,271	5,701	48,282	72,027
1970	5,649	12,001	5,394	51,331	74,375
1971	5,601	11,336	5,004	53,555	75,496
1972	5,678	10,512	4,660	56,098	76,948
1973	5,996	9,740	4,402	61,231	81,369
1974	6,327	9,115	4,178	66,614	86,234
1975	6,753	8,502	3,903	70,009	89,167
1976	7,425	7,838	3,603	72,686	91,552
1977	8,842	7,182	3,348	77,476	96,848
1978	10,499	6,705	3,164	85,799	106,167
1979	12,184	6,372	2,975	96,890	118,421
1980	12,958	6,066	2,781	109,275	131,080
1981	13,100	5,651	2,590	116,406	137,747
1982	12,831	5,309	2,462	121,387	141,989
1983	12,742	4,921	2,241	131,095	150,999

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, (Washington, D.C.: annually).

n.a.: Data not available.

a. Includes mortages held in foreign nations. As per 1983, however, total U.S. farm mortages equaled $12,717.6 million, total U.S. nonfarm mortages equaled $135,203.4 million, and total U.S. mortages equaled $147,921 million.

TABLE XXII-22. NUMBER OF STOCKBROKER AND SECURITIES DEALER FIRMS IN MICHIGAN AND THE UNITED STATES: 30 SEPTEMBER 1968-1984

	Michigan				
Year	Sole proprietorships	Partnerships	Corporations[a]	Total	Total U.S.
1968	16	10	46	72	4,355
1969	15	10	49	74	4,755
1970	17	9	55	81	5,187
1971	9	6	56	71	4,901
1972	8	5	54	67	4,968
1973	8	4	54	66	4,373
1974	8	3	52	63	3,982
1975	8	4	44	56	3,546
1976	5	5	46	56	5,380
1977	6	5	49	60	5,725
1978	6	4	45	55	6,025
1979	5	4	48	57	6,226
1980	8	4	54	66	6,730
1981	7	5	59	71	7,423
1982	7	3	66	76	8,157[b]
1983	5	5	82	92	9,154[b]
1984	4	3	93	100	10,414[b]

SOURCE: Securities and Exchange Commission, Annual Report, 1968 through 1984 (Washington, D.C.: annually).

[a] Includes all forms of organizations other than sole proprietorships and partnerships.

[b] Includes offices of foreign firms.

TABLE XXII-23. NUMBER OF SHAREHOLDERS OF PUBLIC CORPORATIONS IN MICHIGAN AND THE UNITED STATES, SELECTED YEARS: 1952-1983

(In thousands of persons)

Year	Michigan	United States
1952	n.a.	6,490
1956	370	8,604
1959	625	12,391
1962	794	16,867
1965	946	19,963
1970	1,403	30,612
1975	1,517	25,270
1980	1,349	30,200
1981	1,385	32,260
1982	n.a.	n.a.
1983	1,672	42,360

SOURCE: New York Stock Exchange, Fact Book, (New York, N.Y.: annually), and special release.

n.a. not available.

XXIII. SELECTED SERVICES

The first postwar business census covered the year 1948. Subsequent censuses have been taken twice each decade, with current law authorizing the U.S. Bureau the Census to canvass of the nation's industrial and business establishments at five-year intervals covering years ending in 2 and 7. These economic censuses cover construction industries, manufacturing, mining, retail trade, selected services, selected transportation, and wholesale trade.

Each establishment is classified on the basis of its major economic activity. Those primarily engaged in furnishing lodging, or lodging and meals, and camping space or camping facilities, on a fee basis; providing services generally involved in the care of the person or apparel, such as laundries, dry cleaning plants, portrait photographic studios, and beauty and barber shops; rendering services to business establishments on a fee or contract basis; furnishing automotive repair, leasing, and parking and other repair services to the general public; producing, distributing, or exhibiting motion pictures in commercially operated theaters; providing other amusement or entertainment on payment of a fee or admission charge; making dentures and artificial teeth to order for the dental profession; offering legal advice or legal services (providing that the head of the organization or office is a member of the bar); or rendering engineering, architectural, and surveying services were classified in the Census of Selected Services Industries, 1977. The tabulations exclude such establishments that are part of a military post, school, university, and so forth. Many service establishments, such as hospitals, physicians' offices, and educational institutions, are not covered in the Census of Selected Services Industries.

Beginning in 1954, the Census of Selected Service Industries has excluded firms with no paid employees during the census year unless they reported sales of $1,000 or more. Firms with no paid employees were not actually canvassed, their sales figures and kind-of-business classification being obtained from 1972 income tax returns.

Several changes were made in the kind-of-business definitions between 1967 and 1972 with the result that comparability between the two censuses is limited. The kinds of business involving the most significant changes are those in the new computer and data processing services category.

It is customary in an economic census to classify each establishment separately, irrespective of whether it is part of a larger organization.

Receipts reported in the Census of Selected Service Industries do not include receipts incidental to other kinds of business, such as wholesaling or services. They do include total receipts, including accruals, of selected service establishments even though some of these receipts were from selling merchandise, carrying charges, delivering merchandise, and so forth. Trade-in allowances are not deducted, but refunds and allowances for merchandise returned are. Sales and excise taxes are included, but nonoperating income (rental or real estate, interest or dividends on investments, and so forth) is not. Receipts include receipts so defined of all establishments with a sales volume of $1,000 or more at any time during the year, whereas the number of establishments in the Census of Retail Trade excludes those that have gone out of business during the year. The census also includes establishments in operation less than the full year, with reported sales of less than $1,000, if they could have expected reaching the $1,000 cutoff on the basis of year-round operation.

Payroll is as defined by the Internal Revenue Service. It includes wages and salaries, gratuities reported to the employer, commissions, bonuses, vacation and sick leave pay before deducting employee income taxes, Social Security taxes, union dues, and so forth. Payments in kind, such as free restaurant meals, are included.

Employment for the pay period including 12 March 1982 consists of paid employees of corporations and unincorporated businesses, including salaried officers and executives of corporations but excluding proprietors and partners of unincorporated businesses. Employees on paid sick leave or holiday or on paid vacation also are included.

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TABLE XXIII-1. AVERAGE WAGE AND SALARY EMPLOYMENT IN MICHIGAN AND THE UNITED STATES SERVICE ESTABLISHMENTS: 1956-1984

Year	Michigan Employment (000)	United States Employment (000)
1956	234.4	6,497
1957	241.2	6,708
1958	244.6	6,765
1959	244.4	7,087
1960	263.7	7,378
1961	270.8	7,620
1962	286.6	7,982
1963	298.2	8,277
1964	310.5	8,660
1965	326.7	9,036
1966	353.0	9,498
1967	376.8	10,045
1968	385.5	10,567
1969	402.9	11,169
1970	407.7	11,548
1971	420.2	11,797
1972	454.7	12,276
1973	489.1	12,857
1974	510.2	13,441
1975	514.4	13,892
1976	541.1	14,551
1977	580.5	15,303
1978	613.8	16,252
1979	626.7	17,112
1980	644.4	17,890
1981	649.4	18,619
1982	650.3	19,036
1983	675.0	19,694
1984	696.5	20,761

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: Monthly), March 1985, Table B-1; and Supplement to Employment and Earnings (Washington, D.C.: June 1985).

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982

Kind of business	Year	Establishments with payroll				
				Payroll ($1,000)		
		Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
			Hotels, motels, trailer parks, camps			
Hotels, motor hotels, and motels	1977	1,210	414,071	122,520	27,404	24,340
	1982	1,057	531,264	154,579	37,350	22,221
Hotels	1977	365	223,481	73,204	16,067	13,889
	1982	257	309,429	99,390	24,986	13,617
Hotels, 25 or more guest rooms	1977	220	216,020	71,794	15,699	13,487
	1982	149	301,058	97,889	24,667	13,293
Hotels, less than 25 guest rooms	1977	145	7,461	1,410	368	402
	1982	108	8,371	1,501	319	324
Motels, tourist courts, and motor hotels	1977	845	190,590	49,316	11,337	10,451
	1982	800	221,835	55,189	12,364	8,604
Motels, tourist courts	1977	789	147,869	36,577	8,314	7,871
	1982	747	175,219	41,031	9,066	6,625
Motor hotels	1977	56	42,721	12,739	3,023	2,580
	1982	53	46,706	14,158	3,298	1,979
Sporting and rec. camps	1977	88	8,554	2,347	510	356
	1982	56	7,194	1,785	181	183
Trailer parks and camps for transients	1977	85	5,977	946	171	92
	1982	90	8,118	1,421	163	118
TOTAL	1977	1,383	428,602	125,813	28,085	24,788
	1977	1,244	550,315	158,929	37,951	22,720
			Personal services			
Laundry, cleaning, garment services	1977	1,875	283,116	100,399	23,340	14,589
	1982	1,685	349,229	115,851	27,158	13,048
Coin-operated laundries and dry cleaning	1977	609	48,668	9,960	2,555	2,438
	1982	496	57,575	11,368	2,682	2,115
Coin-operated laundries and dry cleaning stores	1977	589	40,162	8,473	2,215	2,307
	1982	478	40,580	8,765	2,042	1,908
Coin-operated laundry machine routes	1977	20	8,506	1,487	340	131
	1982	18	16,995	2,603	640	207
Other laundry, cleaning, and garment services	1977	1,266	234,448	90,439	20,875	12,151
	1982	1,189	291,654	104,483	24,476	10,933
Power laundries, family and commercial	1977	94	27,324	12,052	2,726	1,661
	1982	77	26,760	10,776	2,553	1,129
Dry-cleaning plants except rug cleaning	1977	831	77,972	28,013	6,646	5,195
	1982	739	98,343	34,475	8,003	4,760
Garmet pressing and agents for laundries and dry cleaning	1977	57	3,027	1,067	264	196
	1982	54	2,181	515	145	108
Industrial launderers	1977	50	53,336	21,445	5,041	2,152
	1982	65	68,623	24,380	5,909	1,988
Linen supply	1977	55	57,699	22,211	4,863	2,170
	1982	60	73,750	26,439	6,043	2,174

TABLE XXII-24. DISTRIBUTION BY NUMBER OF BRANCHES OF FSLIC INSURED SAVINGS AND LOAN INSTITUTIONS IN MICHIGAN, JUNE 30, 1984

Institutions with:	Number of institutions	Number of offices	Savings in Michigan ($000)	Number of offices with ($000,000) savings accounts				
				$0-$9.9	$10-$24.9	$25-$49.9	$50-$99.9	$100 +
Number of branches								
0	9	8	$ 364,208	2	2	1	2	1
1	4	8	165,254	3	1	3	1	0
2	3	9	119,138	6	1	2	0	0
3-5	13	69	1,402,458	30	21	11	7	1
6-9	10	75	1,576,018	27	31	9	7	0
10 or more	15	463	15,396,979	110	174	110	51	18
TOTAL	53	630	19,024,055	178	230	136	68	20

SOURCE: Federal Home Loan Bank Board, FSLIC Savings and Loan Associations, June 30, 1984, Summary of Savings Accounts by Geographic Area (Washington, D.C.: 1985), Table 3.

TABLE XXIII-2. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN: 1947, 1954, 1958, 1963, 1967, 1972, 1977 AND 1982

	Establishments with payroll				All establishments[a]	
Year	Number	Receipts ($1,000,000)	Annual payroll ($1,000,000)	Paid employees[b]	Number	Receipts ($1,000,000)
1947[c]	n.a.	n.a.	130	48,315	21,376	367
1954	15,127	935	267	76,449	29,669	1,016
1958	17,653	1,256	338	93,279	38,521	1,380
1963	20,188	1,642	424	114,614	44,[illegible]12	1,793
1967	19,654	2,214	647	139,436	43,214	2,397
1972[d]	20,846	3,223	939	162,205	48,727	3,504
1972[e]	24,718	3,446	1,222	186,018	56,080	3,784
1977[e]	24,921	5,882	2,059	218,851	60,550	6,389
1977[f]	n.a.	n.a.	n.a.	n.a.	94,436	9,473
1982	43,705	13,448	5,312	362,797	n.a.	n.a.

SOURCE: Bureau of the Census, 1982 Census of Service Industries, Geographic Area Series, Michigan (Washington, D.C.: 1985), SC82-A-23, Table 1a; and similar documents for other years.

a. Excludes establishments with no paid employment and with annual receipts less than $1,000.
b. Week including 15 November for 1947-1963; week including 12 March for 1967-1982.
c. Unrevised statistics. Based upon reports from establishments with receipts of $500 or more.
d. Based on 1967 Standard Industrial Classification. Excludes dental laboratories, legal services, and architectural, engineering, and land surveying services which are included in the Census of Selected Service Industries, 1972.
e. Based on 1972 Standard Industrial Classification. Includes dental laboratories, legal services, and architectural, engineering, and land surveying services which were excluded in the Census of Business, 1967, Selected Services.
f. Definition of selected services expanded to reflect the inclusion of health services, except hospitals; selected educational services; accounting, auditing and bookkeeping services; and social services.
n.a.: data not available.

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll				
				Payroll ($1,000)		Paid employees[a] 12 March
		Number	Receipts ($1,000)	Entire year	First quarter	
			Personal services (cont.)			
Diaper service	1977	9	4,172	1,695	407	139
	1982	8	8,694	3,225	770	194
Carpet and upholstery	1977	138	9,027	3,229	619	511
	1982	138	11,141	3,806	821	471
Other laundry and garmet services	1977	32	1,891	727	219	127
	1982	56	10,856	4,092	1,002	303
Photographic studios, portrait	1977	268	35,290	8,779	2,026	1,150
	1982	288	46,895	11,019	2,293	1,355
Beauty and barber shops	1977	2,951	154,400	75,016	17,746	12,119
	1982	2,502	179,168	82,460	19,021	10,694
Beauty shops	1977	2,675	139,571	68,770	16,262	11,354
	1982	2,319	167,346	76,758	17,674	10,129
Barber shops	1977	276	14,829	6,246	1,484	765
	1982	183	11,822	5,702	1,347	565
Shoe repair, shoeshine and hat cleaning shops	1977	77	4,213	1,133	295	180
	1982	93	7,393	2,730	652	367
Funeral serv. crematory	1977	591	117,853	27,895	6,502	2,774
	1982	573	162,998	39,032	9,487	2,981
Miscellaneous personal	1977	501	63,405	20,682	5,337	5,226
	1982	661	93,629	32,812	9,037	6,570
Reducing salons and health clubs, ex. res.	1977	125	24,752	7,596	1,512	1,021
	1982	121	24,229	8,034	2,106	1,436
Other personal services N.E.C.	1977	260	27,598	8,880	2,183	2,217
	1982	322	48,432	16,172	3,677	2,609
TOTAL	1977	6,263	658,277	233,904	55,246	36,038
	1982	5,802	839,312	283,904	67,648	35,015
			Business services			
Advertising	1977	334	208,160	78,215	18,212	4,585
	1982	413	342,305	133,953	32,481	5,553
Advertising agencies	1977	233	167,286	65,186	15,137	3,607
	1982	292	283,126	113,344	27,524	4,446
Outdoor adv. services	1977	28	21,428	6,000	1,445	423
	1982	32	26,805	9,624	2,251	433
Radio, TV, publishers' adv. representatives	1977	49	14,588	4,817	1,130	249
	1982	53	22,067	7,145	1,731	282
Miscellaneous adv.	1977	24	4,858	2,212	500	306
	1982	36	10,307	3,840	975	392
Services to dwellings, other buildings	1977	875	114,948	61,532	14,878	12,197
	1982	912	178,767	89,166	21,021	13,456
Window cleaning	1977	60	4,080	1,962	448	282
	1982	41	2,859	1,220	262	123
Disinfecting, exterminating services	1977	788	12,697	5,444	1,279	557
	1982	101	23,637	9,760	2,189	667

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll				
		Number	Receipts ($1,000)	Payroll ($1,000)		Paid employees 12 March[a]
				Entire year	First quarter	
			Business services (cont.)			
Other cleaning, maintenance services	1977	737	98,171	54,126	13,151	11,3[illegible]
	1982	770	152,271	78,186	18,570	12,66[illegible]
Computer, data processing	1977	352	201,832	75,918	17,225	5,890
	1982	636	480,972	180,251	73,824	8,861
Computer programming software services	1977	93	27,801	12,937	2,840	730
	1982	281	144,667	72,841	18,008	2,898
Data processing, exc. facilities mgmt.	1977	203	133,541	45,645	10,562	4,055
	1982	222	237,593	73,582	18,209	4,518
Computer, facilities management	1977	20	(D)	(D)	(D)	(D)
	1982	20	21,217	8,891	2,127	440
Computer related, N.E.C.	1977	36	(D)	(D)	(D)	(D)
	1982	113	77,495	24,937	5,480	1,005
Management, consulting, public relations	1977	700	157,511	67,386	15,988	5,812
	1982	1,047	316,183	136,009	33,008	9,974
Mgmt. and consulting	1977	636	147,403	63,199	14,963	5,536
	1982	432	114,070	45,959	11,060	3,111
Public relations	1977	64	10,108	4,187	1,025	276
	1982	86	17,903	8,267	1,926	411
Equip. rental, leasing	1977	367	153,283	37,312	7,567	2,435
	1982	463	221,112	54,848	13,085	3,040
Equip. rental	1977	223	56,672	11,301	2,421	963
	1982	277	97,615	23,612	5,476	1,712
Equip. leasings, exc. finance leasing	1977	66	16,544	4,584	1,063	419
	1982	95	36,784	8,789	1,940	498
Leasing, heavy cons. equip. without op.	1977	33	23,227	4,540	960	253
	1982	46	24,813	4,606	1,156	165
Rental, heavy cons. with operators	1977	45	56,838	16,887	3,123	800
	1982	45	61,900	17,841	4,513	665
Other business services	1977	2,400	953,565	409,458	91,546	46,460
	1982	2,919	1,615,862	629,983	150,791	51,536
Adjustment, collection agencies	1977	162	24,450	10,093	2,300	1,243
	1982	130	28,426	11,887	2,755	984
Mercantile reporting agencies	1977	8	(D)	(D)	(D)	(D)
	1982	5	(D)	(D)	(D)	(D)
Consumer credit agencies	1977	43	9,572	3,906	916	536
	1982	38	(D)	(D)	(D)	(D)
Direct mail adv.	1977	65	30,348	9,771	2,158	1,032
	1982	60	47,912	12,261	2,786	1,039
Blueprinting and photocoping service	1977	84	18,199	5,148	1,201	518
	1982	118	35,376	10,191	2,404	712
Stenographic services; and reproduction services, N.E.C.	1977	120	16,099	7,495	1,723	714
	1982	178	30,339	13,704	3,186	1,014
Commer. photo, art, related design	1977	283	101,539	38,385	8,597	2,367
	1982	357	146,589	54,752	12,911	2,568
Commercial photography	1977	87	27,006	7,631	1,673	586
	1982	101	24,297	7,603	1,889	391

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
			Business services (cont.)			
Commercial art	1977	70	34,848	14,893	3,411	841
	1982	89	40,502	18,051	4,277	692
Other	1977	126	39,685	15,861	3,513	940
	1982	167	81,790	29,098	6,745	1,485
News syndicates	1977	6	(D)	(D)	(D)	(D)
	1982	12	5,045	2,128	486	87
Private employment agencies	1977	134	20,471	10,351	2,131	1,012
	1982	238	34,089	18,562	4,586	1,670
Temp. office help, supply services	1977	92	41,687	30,974	6,852	6,768
	1982	97	64,796	38,754	9,023	5,340
Temp. help supply, exc. office workers	1977	87	58,217	40,948	8,929	5,906
	1982	121	81,253	54,454	12,241	8,164
Commercial research development lab	1977	62	197,885	52,247	10,878	2,168
	1982	71	324,327	83,072	20,903	3,049
Commercian testing lab	1977	64	18,800	7,849	1,588	522
	1982	79	31,234	12,919	3,018	709
Detective agencies and guard services	1977	202	78,400	55,619	13,417	10,715
	1982	307	163,662	95,667	23,321	11,660
Armored car service	1977	23	14,713	8,313	2,039	848
	1982	12	14,279	6,448	1,601	511
Burglar and fire alarm	1977	44	17,229	7,344	1,744	878
	1982	58	39,804	15,953	3,792	1,196
Photofinishing lab	1977	83	67,099	19,405	4,362	1,911
	1982	107	101,374	27,561	6,618	2,281
Trading stamp (sales office)	1977	3	(D)	(D)	(D)	(D)
	1982	2	(D)	(D)	(D)	(D)
Sign painting shops	1977	39	6,910	2,428	509	209
	1982	34	4,845	1,474	308	103
Interior designing	1977	34	4,800	1,058	234	123
	1982	54	10,980	2,413	566	173
Telephone answering service	1977	76	11,281	5,441	1,282	867
	1982	91	16,431	7,288	1,796	1,016
Water softening service	1977	86	17,260	5,305	1,146	467
	1982	86	22,958	6,992	1,531	451
Packaging and labeling	1977	37	32,472	7,621	1,753	883
	1982	57	75,239	17,025	3,933	1,481
Miscellaneous business, N.E.C.	1977	495	149,607	71,278	15,873	6,097
	1982	673	(D)	(D)	(D)	(D)
TOTAL	1977	5,028	1,789,299	729,821	165,416	77,379
	1982	6,390	3,155,201	1,224,210	294,210	92,420

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid employees 12 March[a]
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	
		Automotive repair, services, and garages				
Auto repair shops	1977	2,693	514,413	148,988	34,355	12,893
	1982	2,832	654,860	179,896	41,251	12,010
General auto repair	1977	942	142,536	37,123	8,966	3,711
	1982	979	189,576	49,191	11,327	3,732
General auto, exc. diesel	1977	879	123,172	31,894	7,751	3,297
	1982	887	157,360	41,133	9,349	3,137
Diesel repair shop	1977	63	19,364	5,229	1,215	414
	1982	92	32,216	8,058	1,978	595
Top and body repair shops	1977	855	189,010	59,445	13,791	4,744
	1982	906	220,459	65,309	15,134	4,072
Other auto repair shops	1977	896	182,867	52,420	11,598	4,438
	1982	947	244,825	65,396	14,790	4,206
Tire retreading repair	1977	54	17,793	4,440	978	399
	1982	44	19,672	4,286	1,105	308
Paint shop	1977	129	22,354	7,248	1,578	656
	1982	100	21,713	6,420	1,306	448
Auto electrical and fuel system serv.	1977	75	10,773	2,973	706	298
	1982	70	11,579	3,599	836	261
Radiator repair	1977	78	14,384	3,915	824	335
	1982	92	19,148	4,824	1,047	312
Glass replacement repair	1977	120	28,789	8,224	1,902	700
	1982	137	43,941	10,844	2,487	736
Brake, front end and wheel alignment	1977	79	15,379	5,055	1,105	390
	1982	93	25,842	7,898	1,743	477
Exhaust system (muffler shops)	1977	104	27,432	6,901	1,387	503
	1982	175	56,309	13,746	2,879	723
Transmission repair	1977	215	30,302	9,289	2,182	812
	1982	180	35,637	10,339	2,639	705
Other auto repair N.E.C.	1977	42	15,661	4,375	936	345
	1982	56	10,984	3,440	748	236
Auto. rental, leasing without drivers	1977	291	291,439	29,608	6,624	2,257
	1982	286	293,305	41,761	10,130	2,586
Passenger car rental without drivers	1977	62	37,140	6,347	1,504	685
	1982	67	56,520	10,010	2,365	772
Passenger car leasing ex. finance leasing	1977	57	138,609	5,745	1,449	417
	1982	54	81,472	6,500	1,740	303
Truck rental without drivers	1977	53	33,758	4,768	1,095	366
	1982	70	29,000	5,686	1,215	463
Truck leasing, exc. finance leasing	1977	91	76,537	12,074	2,418	720
	1982	76	123,058	18,897	4,684	1,005
Utility and recreation vehicle rental	1977	28	5,395	674	158	69
	1982	19	3,255	668	126	43
Automobile parking	1977	235	25,866	5,469	1,398	906
	1982	206	34,100	7,183	1,626	882
Parking lots	1977	209	15,963	3,355	885	629
	1982	177	14,467	3,624	843	523

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll Number	Receipts ($1,000)	Payroll ($1,000) Entire year	First quarter	Paid employees 12 March[a]
		Automotive repair, services, and garages				
Parking structures	1977	26	9,903	2,114	513	277
	1982	29	19,633	3,559	783	359
Auto service, exc. repair	1977	568	88,573	25,740	6,178	4,030
	1982	563	88,045	24,559	5,816	3,237
Car washes	1977	370	45,076	10,996	2,856	2,689
	1982	328	50,870	13,353	3,389	2,246
Other auto serv	1977	198	43,497	14,744	3,322	1,341
	1982	235	37,175	11,206	2,427	991
TOTAL	1977	3,787	920,291	209,805	48,555	20,086
	1982	3,887	1,070,310	253,399	58,823	18,715
		Miscellaneous repair services				
Elec. and electronic repair shops	1977	607	103,859	33,405	7,893	2,978
	1982	526	133,564	45,430	10,866	2,914
Radio and TV repair	1977	332	43,294	13,321	3,140	1,327
	1982	236	41,345	12,669	3,135	983
Other elec. and electronic repair	1977	275	60,565	20,084	4,753	1,651
	1982	290	92,219	32,761	7,731	1,931
Refrigeration and air-cond. repair	1977	89	18,752	5,439	1,166	404
	1982	99	27,466	8,738	1,965	448
Elec. and electronic, N.E.C.	1977	186	41,813	14,645	3,587	1,247
	1982	191	64,753	24,023	5,766	1,483
Reupholstery and furniture	1977	198	17,107	5,203	1,211	706
	1982	161	15,327	4,902	1,095	531
Other repair shops and related services	1977	1,095	239,635	76,899	16,930	6,152
	1982	1,146	323,285	100,940	24,029	6,300
Watch, clock, jewelry	1977	60	7,190	1,380	315	169
	1982	59	6,118	1,406	343	145
Misc. repair and repair services	1977	1,035	232,445	75,519	16,615	5,983
	1982	1,087	317,167	99,534	23,686	6,155
Welding repair	1977	179	37,746	13,429	2,637	1,112
	1982	174	38,604	13,143	3,038	880
Armature rewinding shops	1977	90	47,286	15,482	3,542	1,011
	1982	92	50,748	15,940	4,023	871
Farm machinery/ equipment	1977	21	3,296	973	221	81
	1982	22	3,079	751	176	71
Lawnmower, saw, knife, tool sharpening repair	1977	58	9,809	2,962	672	288
	1982	73	13,407	3,325	792	239
Sewer, septic tank cleaning	1977	53	7,750	2,731	596	198
	1982	66	12,647	4,620	943	294
Other repair related serv. N.E.C.	1977	634	126,558	39,942	8,947	3,293
	1982	660	198,682	61,755	14,714	3,800
TOTAL	1977	1,900	360,601	115,507	26,034	9,836
	1982	1,833	472,176	151,272	35,990	9,745

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll Number	Receipts ($1,000)	Payroll ($1,000) Entire year	First quarter	Paid employees 12 March[a]
		Amusement and recreation services, including motion pictures				
Motion picture prod. dist. services	1977	87	84,693	12,618	2,743	749
	1982	107	125,238	22,053	5,122	950
Motion picture prod. except TV	1977	30	25,216	6,309	1,289	317
	1982	28	32,846	9,584	2,292	358
Motion picture, tape prod. for TV	1977	9	2,208	577	136	37
	1982	23	9,980	1,642	337	85
Services allied to motion picture prod.	1977	14	9,742	3,402	769	199
	1982	23	23,092	7,189	1,611	319
Motion picture film exchanges	1977	23	43,565	1,772	402	127
	1982	22	54,772	2,676	662	135
Film or tape dist. for TV	1977	2	(D)	(D)	(D)	(D)
	1982	4	1,358	178	30	9
Serv. allied to motion picture dist.	1977	9	(D)	(D)	(D)	(D)
	1982	7	3,190	784	190	44
Motion picture theaters	1977	341	92,607	15,715	3,536	3,565
	1982	316	105,292	18,557	4,094	3,189
Motion picture theaters, exc. drive-in	1977	238	74,253	12,568	3,051	3,148
	1982	220	90,301	15,646	3,780	2,927
Drive-in motion pictures	1977	103	18,354	3,147	485	417
	1982	96	14,991	2,911	314	262
Producers, orchestras, entertainers	1977	106	30,068	6,059	1,089	582
	1982	97	50,577	11,582	2,455	883
Dance groups and artists	1977	7	111	53	20	9
	1982	2	(D)	(D)	(D)	(D)
Symphony orchestras, other classical music, dance groups	1977	--	--	--	--	--
	1982	--	--	--	--	--
Other entertainment presentation, inc. variety	1977	46	(D)	(D)	(D)	(D)
	1982	50	(D)	(D)	(D)	(D)
Prod. of legitimate theater	1977	17	2,096	509	69	57
	1982	--	--	--	--	--
Prod. of radio & TV shows, exc. tape	1977	3	(D)	(D)	(D)	(D)
	1982	3	432	111	30	5
Theatrical services	1977	33	14,704	3,163	567	209
	1982	--	--	--	--	--
Artists' - entertainers' mgrs. or agents, concert bureaus, bkg. agents	1977	18	6,871	1,565	220	79
	1982	20	9,422	2,310	545	80
Other theatrical services	1977	15	7,833	1,598	347	130
	1982	11	13,433	2,689	753	336
Bowling alleys, billiards and pool	1977	446	138,829	38,542	10,313	9,131
	1982	421	171,059	74,142	12,884	8,030
Billiard and pool establishments	1977	38	2,862	764	202	203
	1982	23	1,393	356	107	62
Bowling alleys	1977	408	135,967	37,778	10,111	8,928
	1982	398	169,666	46,786	12,777	7,968

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll				
				Payroll ($1,000)		Paid employees 12 March[a]
		Number	Receipts ($1,000)	Entire year	First quarter	
Amusement and recreation services, including motion pictures						
Other amusement and rec. services	1977	1,110	263,003	70,841	14,067	7,975
	1982	1,285	344,958	101,663	22,279	9,637
Dance halls, studios, and schools	1977	95	5,134	1,803	471	467
	1982	111	5,681	1,799	493	446
Public dance halls or ballrooms	1977	7	1,072	352	63	71
	1982	--	--	--	--	--
Dance schools, inc. childrens & profess.	1977	88	4,062	1,451	408	396
	1982	111	5,681	1,799	493	446
Commercial sports	1977	89	100,968	28,447	5,501	1,389
	1982	72	90,457	35,411	9,008	1,492
Profess. sports clubs, mgrs., promoters	1977	19	29,225	13,951	3,826	642
	1982	18	26,003	22,918	6,827	440
Baseball clubs	1977	3	(D)	(D)	(D)	(D)
	1982	1	(D)	(D)	(D)	(D)
Football clubs	1977	2	(D)	(D)	(D)	(D)
	1982	2	(D)	(D)	(D)	(D)
Other professional sports	1977	6	(D)	(D)	(D)	(D)
	1982	7	9,397	7,292	2,846	254
Managers and promoters	1977	8	645	178	69	51
	1982	8	(D)	(D)	(D)	(D)
Racing, incl. track operations	1977	70	71,743	14,496	1,675	747
	1982	54	64,454	12,493	2,181	1,052
Racetrack operation	1977	25	65,950	12,772	1,305	509
	1982	n.a.	n.a.	n.a.	n.a.	n.a.
Auto racetrack operation	1977	21	(D)	(D)	(D)	(D)
	1982	18	5,994	1,612	297	120
Horse racetrack operation	1977	4	(D)	(D)	(D)	(D)
	1982	5	50,478	9,093	1,685	838
Dog racetrack operation	1977	--	--	--	--	--
	1982	--	--	--	--	--
Racing stables, racing, N.E.C.	1977	45	5,793	1,724	370	238
	1982	31	7,982	1,788	199	94
Public golf course, exc. municipal	1977	210	32,805	8,991	1,043	587
	1982	228	50,345	12,640	1,632	1,025
Membership sports and recreation clubs	1977	195	45,273	13,493	2,600	1,910
	1982	249	72,540	22,412	4,561	2,727
Coin-operated amustment devices	1977	78	13,803	3,072	755	383
	1982	185	34,231	7,124	1,649	700
Amusement parks	1977	25	5,632	1,550	112	92
	1982	15	7,901	2,228	176	105
Concession operators of amusement devices, rides	1977	38	9,567	1,364	206	120
	1982	21	3,695	534	99	64
Carnivals, circuses	1977	3	934	105	16	10
	1982	9	6,152	782	51	72
Fairs	1977	7	885	312	20	6
	1982	--	--	--	--	--

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
			Amusement and recreation services, including motion pictures			
Other comm. rec. and amusements	1977	362	47,862	11,659	3,325	2,999
	1982	395	73,956	18,733	4,610	3,006
TOTAL	1977	2,090	609,200	143,775	31,748	22,002
	1982	2,226	797,124	200,997	46,834	22,689
			Dental laboratories			
TOTAL	1977	222	37,321	15,592	3,632	1,367
	1982	269	53,453	23,273	5,558	1,557
			Legal services			
TOTAL	1977	3,236	573,526	212,227	47,344	13,312
	1982	3,739	1,066,195	459,815	106,017	18,693
			Architectural, engineering, and land surveying services			
Architectural services	1977	331	104,436	48,597	11,150	2,612
	1982	338	125,121	61,373	16,784	2,600
Engineering services	1977	522	378,177	212,394	46,089	10,604
	1982	811	602,078	318,617	76,712	12,377
Land surveying services	1977	159	22,152	11,746	2,304	827
	1982	158	18,943	9,759	2,529	694
TOTAL	1977	1,012	504,765	272,737	59,543	14,043
	1982	1,307	746,142	389,749	96,025	15,671
TOTAL SELECTED SERVICES	1977	24,921	5,881,882	2,059,181	465,603	218,851
	1982	43,705	13,448,485	5,311,923	1,272,248	362,797

SOURCE: Bureau of the Census, 1977 Census of Service Industries, Geographic Area Series, Michigan (Washington, D.C.: 1980), SC77-A-23, Table 1; and Bureau of the Census, 1982 Census of Service Industries, Geographic Area Series, Michigan (Washington, D.C.: 1985), SC82-A-23, Table 1a.

a. Week including 12 March.
(D). Data withheld to avoid disclosing figures for individual companies.
N.E.C.: not elsewhere classified.

TABLE XXIII-4. SUMMARY STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Year	Establishments with payroll				
				Payroll ($1,000)		Paid employees 12 March[a]
		Number	Receipts ($1,000)	Entire year	First quarter	
Alcona	1977	17	1,000	244	63	45
	1982	17	2,038	949	178	94
Alger	1977	21	1,354	219	44	37
	1982	34	5,580	1,328	292	178
Allegan	1977	151	17,029	4,211	929	659
	1982	223	41,945	15,063	3,469	1,444
Alpena	1977	95	14,904	3,399	760	493
	1982	153	30,997	9,203	2,093	928
Antrim	1977	39	6,485	2,217	54[illegible]	435
	1982	65	10,991	3,682	983	629
Arenac	1977	26	2,193	456	98	91
	1982	49	7,679	2,505	512	296
Baraga	1977	16	1,404	399	67	652
	1982	30	3,789	1,422	410	177
Barry	1977	60	3,933	1,002	252	204
	1982	108	15,289	4,979	1,195	511
Bay	1977	274	41,118	13,299	2,974	1,551
	1982	470	100,451	40,219	9,197	2,838
Benzie	1977	41	3,833	796	192	175
	1982	61	8,666	2,227	590	288
Berrien	1977	475	70,436	22,452	5,192	3,245
	1982	739	161,300	59,259	14,084	5,208
Branch	1977	90	12,656	2,192	467	269
	1982	119	20,361	7,655	1,741	613
Calhoun	1977	365	52,244	18,664	4,421	2,564
	1982	632	139,695	52,688	12,299	5,139
Cass	1977	79	7,458	1,983	452	352
	1982	111	18,330	6,146	1,361	557
Charlevoix	1977	75	10,032	2,653	841	608
	1982	99	16,309	4,314	1,319	696
Cheboygan	1977	113	7,620	2,040	340	260
	1982	181	19,268	5,623	1,017	481
Chippewa	1977	114	9,851	2,925	604	471
	1982	156	16,975	5,638	1,251	585
Clare	1977	48	4,974	1,213	323	241
	1982	74	16,108	5,828	1,334	747
Clinton	1977	81	10,959	3,677	849	418
	1982	151	21,391	8,183	2,119	743
Crawford	1977	42	4,014	1,026	255	210
	1982	48	8,580	2,170	482	253
Delta	1977	108	10,740	3,424	762	492
	1982	163	30,415	11,812	2,754	1,057
Dickinson	1977	81	9,810	2,929	774	488
	1982	148	25,616	8,320	2,326	889
Eaton	1977	148	16,745	5,012	1,165	725
	1982	290	52,982	19,343	4,464	1,557

TABLE XXIII-4. SUMMARY STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
County	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Emmet	1977	127	20,406	5,572	1,456	982
	1982	172	55,018	21,655	4,651	1,556
Genesee	1977	1,072	182,797	64,245	14,897	8,136
	1982	2,042	522,309	216,656	50,946	15,098
Gladwin	1977	27	2,058	560	135	87
	1982	52	6,219	2,065	498	243
Gogebic	1977	69	7,359	2,104	723	559
	1982	106	17,089	5,352	1,565	793
Grand Traverse	1977	246	40,787	12,775	2,815	1,739
	1982	514	131,903	47,933	10,731	3,378
Gratiot	1977	80	7,569	1,771	468	293
	1982	153	26,768	9,984	2,197	913
Hillsdale	1977	83	9,047	2,414	543	328
	1982	128	17,418	6,257	1,326	538
Houghton	1977	89	10,011	2,261	542	417
	1982	169	23,780	8,413	2,126	841
Huron	1977	83	5,845	1,309	296	214
	1982	149	19,395	6,854	1,604	518
Ingham	1977	525	174,177	62,520	13,586	6,800
	1982	1,511	435,020	176,496	43,732	11,962
Ionia	1977	85	6,481	1,639	369	285
	1982	160	21,121	7,172	1,711	824
Iosco	1977	84	5,448	1,452	315	238
	1982	130	15,035	5,751	1,386	554
Iron	1977	38	4,408	1,184	290	169
	1982	65	10,145	3,376	876	365
Isabella	1977	111	15,033	5,072	1,131	675
	1982	207	59,338	20,048	4,623	1,548
Jackson	1977	348	121,588	49,373	10,501	4,198
	1982	636	217,597	94,950	21,939	5,802
Kalamazoo	1977	645	137,600	45,459	10,231	5,605
	1982	1,155	332,802	145,928	34,932	10,235
Kalkaska	1977	25	2,442	771	155	93
	1982	47	7,134	2,137	502	250
Kent	1977	1,372	300,160	107,269	24,834	13,834
	1982	2,427	835,024	326,609	77,428	24,548
Keweenaw	1977	9	339	80	90	6
	1982	4	303	41	4	3
Lake	1977	13	620	91	19	14
	1982	12	1,959	713	158	109
Lapeer	1977	109	10,102	2,826	661	402
	1982	198	32,189	12,902	2,984	938
Leelanau	1977	40	4,708	1,464	378	276
	1982	53	10,855	3,659	1,045	663
Lenawee	1977	217	24,431	6,477	1,482	1,045
	1982	376	70,736	23,356	5,604	2,094

TABLE XXIII-4. SUMMARY STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
County	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
Livingston	1977	173	37,039	9,680	2,590	1,491
	1982	355	82,717	29,287	7,184	2,607
Luce	1977	26	1,673	375	84	78
	1982	35	2,658	946	209	123
Mackinac	1977	69	11,705	3,145	264	150
	1982	87	11,719	3,517	513	297
Macomb	1977	1,710	498,837	160,160	35,372	14,645
	1982	3,237	1,179,911	447,799	107,768	26,910
Manistee	1977	71	6,761	1,679	369	255
	1982	103	13,016	4,432	988	469
Marquette	1977	172	19,062	5,806	1,342	906
	1982	318	63,334	26,021	6,656	1,906
Mason	1977	85	7,417	1,884	436	370
	1982	131	18,052	6,198	1,485	533
Mecosta	1977	53	5,470	1,624	330	221
	1982	111	15,697	5,769	1,246	465
Menominee	1977	45	5,216	1,373	417	358
	1982	74	10,972	3,639	849	419
Midland	1977	141	26,971	9,899	2,169	1,281
	1982	309	73,824	29,084	6,787	2,167
Missaukee	1977	14	802	152	27	23
	1982	18	1,699	503	108	41
Monroe	1977	220	36,084	9,590	2,095	1,243
	1982	383	89,141	30,067	7,046	2,764
Montcalm	1977	80	5,618	1,210	327	270
	1982	167	33,854	7,661	1,707	754
Montmorency	1977	21	1,181	515	104	39
	1982	26	2,281	779	139	63
Muskegon	1977	361	53,091	15,971	3,730	2,111
	1982	661	159,933	60,397	14,072	4,482
Newaygo	1977	48	2,574	719	150	91
	1982	85	11,492	3,980	929	409
Oakland	1977	4,300	1,455,128	529,690	118,358	46,587
	1982	8,671	3,345,591	1,386,639	334,504	81,111
Oceana	1977	41	3,450	874	191	162
	1982	63	8,823	2,454	524	218
Ogemaw	1977	39	7,670	1,027	196	102
	1982	78	12,360	4,978	1,063	441
Ontonagon	1977	18	1,235	248	64	88
	1982	36	4,025	1,932	457	198
Osceola	1977	29	2,946	765	121	103
	1982	42	5,304	1,642	408	160
Oscoda	1977	13	542	160	24	21
	1982	24	2,039	464	115	57

TABLE XXIII-4. SUMMARY STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
County	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
Otsego	1977	66	12,182	3,667	840	576
	1982	102	22,781	8,069	2,077	723
Ottawa	1977	324	500,949	16,670	3,810	2,235
	1982	686	144,764	51,653	12,172	4,805
Presque Isle	1977	31	1,723	478	114	69
	1982	41	4,150	1,697	361	146
Roscommon	1977	65	3,419	771	169	124
	1982	83	11,473	2,767	603	360
Saginaw	1977	577	104,423	33,723	7,888	4,296
	1982	1,011	254,824	97,850	22,833	7,583
St. Clair	1977	285	33,477	10,262	2,490	1,576
	1982	496	98,439	38,320	9,573	2,989
St. Joseph	1977	125	13,709	3,608	838	547
	1982	204	34,012	11,875	2,808	1,266
Sanilac	1977	74	5,935	1,266	248	171
	1982	119	14,812	3,962	951	389
Schoolcraft	1977	48	3,545	754	138	113
	1982	47	6,650	1,970	453	196
Shiawassee	1977	123	15,298	4,400	1,000	596
	1982	229	40,950	15,183	3,633	1,172
Tuscola	1977	82	5,005	1,149	265	179
	1982	141	19,955	7,287	1,624	711
Van Buren	1977	122	25,850	6,029	1,206	676
	1982	199	40,431	14,895	3,587	1,495
Washtenaw	1977	778	227,925	95,431	21,720	8,335
	1982	1,539	516,295	206,354	51,411	12,894
Wayne	1977	6,040	1,761,451	645,932	147,090	67,073
	1982	9,072	3,429,577	1,354,346	324,917	90,910
Wexford	1977	96	11,714	3,376	830	601
	1982	135	28,017	10,646	2,460	883
TOTAL	1977	24,921	5,881,882	2,059,181	465,603	218,851
	1982	43,705	13,448,485	5,311,923	1,272,248	362,797

SOURCE: Bureau of the Census, *1977 Census of Service Industries, Geographic Area Series, Michigan* (Washington, D.C.: 1980), SC77-A-23, Table 7; and Bureau of the Census, *1982 Census of Service Industries, Area Series, Michigan* (Washington, D.C.: 1985), SC82-A-23, Table 8.

a. Week including 12 March.

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Adrian	1977	104	12,789	4,070	936	655
	1982	192	37,239	13,530	3,306	1,237
Albion	1977	37	4,730	1,396	342	220
	1982	67	11,952	3,920	900	407
Algonac	1977	10	715	166	36	23
	1982	20	2,022	556	119	54
Allegan	1977	43	4,178	1,390	302	185
	1982	53	8,051	3,076	775	301
Allen Park	1977	99	21,182	6,139	1,270	835
	1982	204	67,746	26,243	6,473	1,856
Alma	1977	38	3,465	769	197	152
	1982	83	14,662	5,982	1,286	486
Alpena	1977	81	7,989	2,091	473	376
	1982	128	26,284	8,006	1,804	814
Ann Arbor	1977	445	139,208	61,138	13,865	5,396
	1982	851	326,439	119,038	29,801	7,839
Bad Axe	1977	23	1,800	293	70	52
	1982	43	5,530	1,938	552	131
Battle Creek	1977	187	27,772	10,961	2,591	1,411
	1982	292	76,394	29,701	7,129	3,007
Bay City	1977	173	29,222	9,763	2,195	1,153
	1982	278	58,128	24,328	5,481	1,551
Belding	1977	14	953	276	65	62
	1982	25	4,688	1,673	373	225
Belleville	1977	35	3,471	1,021	260	154
	1982	46	6,534	2,502	618	212
Benton Harbor	1977	77	18,158	4,809	1,080	607
	1982	124	32,745	11,373	2,619	993
Berkley	1977	82	18,994	9,760	2,382	754
	1982	136	26,380	11,744	2,842	851
Bessemer	1977	16	1,363	428	207	159
	1982	18	4,319	999	460	282
Beverly Hills	1977	21	4,247	1,846	470	166
	1982	66	15,027	7,027	1,781	432
Big Rapids	1977	32	3,923	1,182	250	173
	1982	85	12,188	4,651	993	367
Birmingham	1977	250	48,019	18,265	4,130	1,713
	1982	475	123,202	53,600	12,240	3,692
Blissfield	1977	14	1,134	206	41	32
	1982	19	1,847	402	97	48
Bloomfield Hills	1977	74	49,558	16,951	3,998	1,374
	1982	222	117,928	50,042	11,898	2,140
Boyne City	1977	21	1,306	357	92	62
	1982	21	1,820	442	123	67

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Brighton	1977	46	10,916	2,971	945	583
	1982	128	36,159	10,733	2,626	759
Buchanan	1977	12	1,727	435	140	68
	1982	28	5,257	1,580	431	178
Burton	1977	57	8,001	2,793	692	351
	1982	124	23,118	8,770	2,211	655
Cadillac	1977	65	6,534	1,954	463	276
	1982	105	22,492	9,166	2,147	701
Carleton	1977	--	--	--	--	--
	1982	13	1,371	410	97	33
Caro	1977	27	2,089	457	101	71
	1982	44	6,648	2,469	565	207
Cedar Springs	1977	--	--	--	--	--
	1982	19	1,629	445	108	61
Center Line	1977	39	(D)	(D)	(D)	(D)
	1982	55	(D)	(D)	(D)	(D)
Charlevoix	1977	27	1,784	589	125	74
	1982	44	4,689	1,557	339	160
Charlotte	1977	33	2,618	606	148	106
	1982	56	6,814	2,468	558	231
Cheboygan	1977	45	2,996	921	196	129
	1982	108	12,766	4,212	832	335
Chelsea	1977	20	1,515	349	84	54
	1982	34	4,665	1,678	451	122
Chesaning	1977	15	1,739	496	122	68
	1982	26	3,720	1,208	384	120
Clare	1977	29	(D)	(D)	(D)	(D)
	1982	42	(D)	(D)	(D)	(D)
Clawson	1977	57	8,922	3,650	786	329
	1982	86	20,038	9,364	2,439	618
Clio	1977	--	--	--	--	--
	1982	21	3,106	1,047	179	56
Coldwater	1977	54	9,634	1,664	330	179
	1982	82	16,768	6,415	1,404	487
Coopersville	1977	--	--	--	--	--
	1982	12	1,811	641	165	50
Corunna	1977	7	672	81	18	16
	1982	23	2,985	912	167	81
Davison	1977	24	1,622	507	119	84
	1982	50	6,640	2,682	647	83
Dearborn	1977	370	145,245	49,260	11,399	5,650
	1982	698	282,188	110,813	26,668	7,689
Dearborn Hgts.	1977	151	21,133	7,140	1,646	838
	1982	256	56,719	18,887	4,478	1,425
Detroit	1977	3,223	1,070,580	420,019	97,166	42,721
	1982	4,058	1,855,737	759,305	182,156	48,469

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

City	Year	Establishments with payroll				
				Payroll ($1,000)		
		Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
DeWitt	1977	--	--	--	--	--
	1982	12	1,562	601	150	47
Dowagiac	1977	38	2,999	665	151	108
	1982	52	6,705	2,169	546	188
Dundee	1977	--	--	--	--	--
	1982	11	970	351	79	33
Durand	1977	7	672	81	18	16
	1982	33	7,212	2,269	540	254
East Detroit	1977	144	29,956	9,066	2,113	1,211
	1982	281	60,515	23,480	5,600	1,447
East Grand Rapids	1977	22	2,145	973	233	90
	1982	96	36,206	17,914	4,173	689
East Lansing	1977	81	16,129	6,706	1,265	637
	1982	166	36,265	15,654	4,098	1,086
East Tawas	1977	--	--	--	--	--
	1982	28	2,394	967	236	75
Eaton Rapids	1977	15	733	171	36	27
	1982	27	3,627	1,564	365	145
Ecorse	1977	17	2,825	894	201	74
	1982	22	6,966	2,273	500	143
Escanaba	1977	82	9,187	3,048	684	439
	1982	118	24,938	9,988	2,337	870
Essexville	1977	8	1,614	479	116	66
	1982	26	3,806	1,345	302	122
Farmington	1977	92	21,056	6,876	1,703	1,047
	1982	164	39,820	16,485	4,023	1,130
Farmington Hills	1977	167	33,673	13,758	2,810	1,115
	1982	482	159,714	55,577	13,250	3,317
Fenton	1977	35	3,025	834	182	108
	1982	73	12,894	5,612	1,400	504
Ferndale	1977	125	31,675	11,246	2,618	1,326
	1982	174	44,059	16,911	3,920	1,270
Flat Rock	1977	22	2,399	668	168	98
	1982	27	4,255	1,188	298	133
Flint	1977	644	111,828	40,005	9,409	5,125
	1982	1,045	280,571	116,968	28,157	8,112
Flushing	1977	18	1,240	541	133	73
	1982	54	10,682	4,389	1,022	494
Frankenmuth	1977	20	2,454	872	199	144
	1982	35	8,411	3,276	639	299
Franklin	1977	35	6,631	2,538	550	171
	1982	24	3,034	1,222	249	91
Fraser	1977	58	15,037	5,924	1,322	510
	1982	88	27,557	11,070	2,549	826

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Fremont	1977	25	1,376	492	69	55
	1982	48	8,285	3,072	745	301
Garden City	1977	92	13,481	5,542	1,348	599
	1982	170	45,827	19,377	4,970	974
Gaylord	1977	46	8,859	2,586	549	380
	1982	83	18,866	6,640	1,673	578
Gibraltar	1977	4	(D)	(D)	(D)	(D)
	1982	9	574	166	36	22
Gladstone	1977	18	1,109	301	64	40
	1982	26	3,491	1,299	296	135
Grand Blanc	1977	33	6,758	3,013	695	306
	1982	91	20,070	8,417	1,686	613
Grand Haven	1977	58	9,016	4,341	1,105	418
	1982	139	25,330	9,882	2,336	855
Grand Ledge	1977	27	1,854	562	126	82
	1982	50	5,916	2,607	521	237
Grand Rapids	1977	776	192,154	72,307	16,395	9,262
	1982	1,306	464,330	190,191	45,295	13,186
Grandville	1977	48	5,746	1,616	309	207
	1982	105	18,190	6,052	1,428	705
Greenville	1977	26	2,483	568	145	98
	1982	74	13,493	4,081	861	454
Grosse Pointe	1977	39	4,073	1,837	431	218
	1982	91	15,358	7,302	1,851	403
Grosse Pointe Farms	1977	26	2,122	713	196	164
	1982	67	11,518	5,313	1,364	291
Grosse Pointe Park	1977	35	4,813	1,106	222	130
	1982	47	8,388	3,366	874	155
Grosse Pointe Shores	1977	3	(D)	(D)	(D)	(D)
	1982	15	(D)	(D)	(D)	(D)
Grosse Pointe Woods	1977	58	8,965	3,565	878	432
	1982	138	27,196	11,222	2,626	731
Hamtramck	1977	59	5,486	1,608	422	248
	1982	63	11,918	4,911	1,160	472
Hancock	1977	23	3,981	646	164	106
	1982	61	11,750	4,184	1,075	343
Harper Woods	1977	63	13,818	5,908	1,306	647
	1982	121	32,795	14,241	3,410	778
Hastings	1977	41	2,945	762	176	131
	1982	73	10,955	4,004	946	401
Hazel Park	1977	77	42,489	11,510	1,766	687
	1982	90	56,920	18,647	4,167	1,622
Highland Park	1977	58	12,319	4,019	864	502
	1982	85	33,593	11,414	3,041	1,038

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Hillsdale	1977	43	3,971	1,298	314	195
	1982	57	8,634	3,447	736	259
Holland	1977	116	19,710	6,412	1,406	1,014
	1982	261	63,561	24,230	5,607	2,067
Holly	1977	20	1,518	450	103	70
	1982	23	3,325	1,311	309	132
Houghton	1977	27	3,306	821	198	172
	1982	35	5,518	1,795	427	225
Howell	1977	52	6,672	2,587	677	330
	1982	110	23,656	9,670	2,290	944
Hudson	1977	10	970	145	41	36
	1982	15	1,275	446	97	43
Hudsonville	1977	7	349	114	30	25
	1982	22	2,625	996	252	76
Huntington Woods	1977	15	3,418	1,120	262	94
	1982	62	20,216	9,936	2,563	738
Inkster	1977	54	9,369	2,563	575	296
	1982	68	12,046	4,303	1,052	447
Ionia	1977	35	3,338	739	174	155
	1982	57	9,368	3,587	915	381
Iron Mountain	1977	62	8,642	2,625	685	406
	1982	95	17,096	5,412	1,521	527
Iron River	1977	17	1,016	191	49	51
	1982	--	--	--	--	--
Ironwood	1977	44	3,281	951	202	128
	1982	70	10,709	3,928	976	420
Ishpeming	1977	27	2,854	890	209	152
	1982	51	9,807	4,332	1,085	328
Ithaca	1977	9	954	154	42	28
	1982	21	2,486	901	180	67
Jackson	1977	195	88,778	42,402	8,936	3,246
	1982	379	169,716	75,103	17,343	4,172
Kalamazoo	1977	418	100,819	33,755	7,615	3,938
	1982	667	204,346	92,275	22,685	6,132
Keego Harbor	1977	14	1,061	290	59	38
	1982	21	2,889	1,170	299	102
Kentwood	1977	66	9,631	3,299	282	507
	1982	163	83,062	34,250	7,761	2,784
Kingsford	1977	8	223	55	19	13
	1982	26	4,953	1,797	508	206
Lake Orion	1977	26	2,363	625	137	103
	1982	33	4,030	1,409	291	123
L'Anse	1977	10	468	74	18	14
	1982	17	2,058	893	270	102
Lansing	1977	536	126,647	45,385	10,059	4,955
	1982	852	290,723	119,545	29,378	8,021

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Lapeer	1977	42	4,039	1,416	320	163
	1982	96	18,442	7,837	1,847	526
Lathrup Village	1977	106	32,282	16,389	3,589	1,059
	1982	120	37,945	13,258	2,979	1,458
Laurium	1977	12	453	138	32	35
	1982	12	1,249	413	91	49
Lincoln Park	1977	128	22,683	7,902	1,724	899
	1982	219	62,116	25,323	5,821	1,648
Livonia	1977	331	104,785	32,165	6,393	3,102
	1982	731	276,637	104,129	23,929	7,527
Lowell	1977	13	912	295	74	44
	1982	23	4,418	1,516	404	117
Ludington	1977	56	4,359	1,159	269	190
	1982	92	13,447	4,913	1,221	431
Madison Hgts.	1977	129	54,320	26,239	5,790	2,146
	1982	238	133,294	58,991	14,103	2,868
Manistee	1977	41	4,964	1,314	312	216
	1982	76	10,586	3,830	895	394
Manistique	1977	36	2,867	567	104	81
	1982	35	5,639	1,702	413	165
Marine City	1977	18	1,150	351	67	60
	1982	29	4,377	1,406	321	116
Marquette	1977	88	11,854	3,928	867	604
	1982	226	45,447	18,762	4,934	1,274
Marysville	1977	15	2,649	619	209	173
	1982	20	2,960	950	225	106
Marshall	1977	34	2,974	965	231	152
	1982	67	10,873	3,881	902	394
Mason	1977	39	6,283	1,620	303	171
	1982	53	7,109	2,443	598	203
Melvindale	1977	42	20,867	4,877	812	273
	1982	39	16,033	4,826	1,109	238
Menominee	1977	38	4,914	3,926	401	344
	1982	60	9,017	2,919	672	319
Midland	1977	128	26,434	9,742	2,126	1,251
	1982	286	69,256	27,868	6,540	2,080
Milan	1977	14	1,113	350	87	51
	1982	16	2,299	1,015	241	83
Milford	1977	17	2,059	511	121	105
	1982	52	6,152	2,303	571	229
Monroe	1977	94	21,832	5,759	1,258	765
	1982	217	62,171	21,401	5,114	1,929
Mount Clemens	1977	166	23,397	8,791	2,057	958
	1982	320	76,052	32,908	8,096	1,843
Mount Morris	1977	22	1,891	495	114	90
	1982	31	2,510	556	132	91

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid employees 12 March[a]
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	
Mount Pleasant	1977	87	12,612	4,085	941	534
	1982	171	40,856	15,778	3,686	1,218
Munising	1977	17	871	145	36	33
	1982	23	4,031	1,091	253	159
Muskegon	1977	147	23,627	8,208	1,954	916
	1982	342	94,242	36,935	8,686	2,293
Muskegon Hgts.	1977	37	6,932	1,836	452	281
	1982	62	15,619	5,437	1,211	443
Negaunee	1977	21	1,876	367	93	46
	1982	16	3,525	1,036	236	67
New Baltimore	1977	15	1,967	424	118	76
	1982	37	7,825	3,000	645	225
New Buffalo	1977	8	940	151	36	23
	1982	13	2,939	1,219	101	41
Niles	1977	75	8,576	2,667	631	554
	1982	126	21,836	7,702	2,107	847
North Muskegon	1977	17	2,213	783	193	142
	1982	35	4,630	2,010	469	191
Northville	1977	40	12,758	3,104	909	463
	1982	80	23,118	6,901	1,758	596
Norton Shores	1977	51	9,706	2,314	535	306
	1982	79	18,796	6,493	1,562	505
Norway	1977	6	407	83	24	16
	1982	17	1,979	446	125	61
Novi	1977	41	16,563	5,795	984	308
	1982	100	30,254	11,849	2,731	803
Oak Park	1977	136	65,948	27,020	5,915	2,699
	1982	216	113,184	42,714	10,654	3,310
Otsego	1977	12	638	210	51	59
	1982	19	2,058	742	173	66
Owosso	1977	74	8,581	2,735	644	358
	1982	133	25,201	10,023	2,452	679
Oxford	1977	22	2,332	796	208	112
	1982	22	3,676	1,358	358	104
Paw Paw	1977	32	3,237	949	219	138
	1982	47	6,025	2,239	471	213
Petoskey	1977	76	8,935	2,754	624	337
	1982	118	37,478	17,060	3,433	930
Plainwell	1977	23	2,910	819	167	125
	1982	31	5,136	2,437	570	235
Pleasant Ridge	1977	7	396	154	36	30
	1982	21	2,554	1,099	271	72
Plymouth	1977	77	16,504	5,680	1,255	729
	1982	156	50,762	14,931	3,665	1,194
Pontiac	1977	201	45,791	16,268	3,763	1,418
	1982	372	111,926	55,385	14,355	3,191

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid employees 12 March[a]
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	
Portage	1977	101	18,439	6,105	1,350	316
	1982	169	46,604	18,031	3,949	1,657
Port Huron	1977	147	20,516	6,806	1,640	935
	1982	279	62,828	26,059	6,668	1,820
Portland	1977	11	687	206	38	26
	1982	24	2,291	707	157	83
Richmond	1977	18	1,724	366	94	67
	1982	29	5,343	2,005	439	242
River Rouge	1977	25	4,284	1,596	355	133
	1982	35	6,992	2,747	646	165
Riverview	1977	30	12,381	4,048	992	275
	1982	56	26,127	10,267	2,521	841
Rochester	1977	55	8,706	2,853	573	318
	1982	161	34,565	14,761	3,724	942
Rockford	1977	--	--	--	--	--
	1982	34	4,502	1,237	294	150
Rockwood	1977	9	315	46	14	10
	1982	6	542	168	49	13
Rogers City	1977	21	1,109	212	53	36
	1982	26	2,583	952	207	82
Romeo	1977	25	2,144	568	125	68
	1982	43	7,152	2,873	683	269
Romulus	1977	72	28,817	8,160	1,653	891
	1982	91	75,162	19,479	4,525	1,548
Roosevelt Park	1977	14	1,709	461	111	104
	1982	36	7,259	3,209	737	344
Roseville	1977	157	38,086	13,691	345	1,406
	1982	242	63,567	22,348	5,341	1,981
Royal Oak	1977	286	52,996	20,175	4,540	2,008
	1982	463	115,938	47,794	11,777	2,844
Saginaw	1977	278	50,048	17,941	4,236	2,065
	1982	440	129,293	50,281	11,434	3,486
St. Clair	1977	19	1,208	316	86	57
	1982	45	8,550	2,816	668	273
St. Clair Shores	1977	240	32,780	11,727	2,761	1,398
	1982	414	90,320	39,755	9,343	2,903
St. Ignace	1977	34	2,831	515	100	84
	1982	37	4,637	1,216	214	126
St. Johns	1977	25	1,728	466	110	75
	1982	63	8,190	3,252	819	285
St. Joseph	1977	90	17,026	7,209	1,680	1,019
	1982	192	48,619	20,691	4,939	1,629
St. Louis	1977	17	1,448	464	137	51
	1982	27	4,854	1,698	429	212

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Saline	1977	15	1,024	226	57	38
	1982	40	6,693	1,915	439	167
Sault Ste. Marie	1977	88	8,461	2,536	527	386
	1982	107	13,734	4,731	1,091	482
Southfield	1977	1,015	401,632	149,669	33,790	13,696
	1982	2,061	1,090,452	452,947	110,856	25,910
Southgate	1977	75	32,958	13,199	2,984	943
	1982	135	42,966	17,613	4,429	1,038
South Haven	1977	31	8,334	1,067	221	113
	1982	51	7,028	2,534	591	271
South Lyon	1977	23	1,674	421	94	67
	1982	41	4,578	1,560	318	131
Sparta	1977	20	1,303	302	72	60
	1982	26	2,600	646	157	91
Springfield	1977	13	2,212	620	134	74
	1982	14	3,612	1,166	246	108
Springlake	1977	28	4,687	1,392	292	230
	1982	39	7,627	2,337	517	262
Sterling Heights	1977	112	21,988	6,836	1,508	822
	1982	290	102,059	40,532	9,499	2,630
Sturgis	1977	54	6,073	1,795	407	279
	1982	83	13,480	4,387	1,033	441
Swartz Creek	1977	17	2,106	567	127	87
	1982	18	3,550	1,264	323	93
Taylor	1977	126	34,928	10,548	1,938	1,003
	1982	190	70,419	25,139	6,086	1,754
Tecumseh	1977	25	2,465	540	121	71
	1982	59	7,213	2,308	552	184
Three Rivers	1977	38	4,415	1,172	262	167
	1982	64	15,061	5,850	1,442	658
Traverse City	1977	180	29,187	9,555	2,148	1,288
	1982	421	105,371	38,252	8,723	2,643
Trenton	1977	47	5,937	2,169	512	289
	1982	139	35,187	15,568	3,995	916
Troy	1977	414	285,692	88,346	19,839	6,400
	1982	876	470,616	210,752	50,057	9,968
Utica	1977	50	6,004	1,680	411	191
	1982	82	12,462	5,130	1,383	374
Vassar	1977	10	735	189	44	30
	1982	24	3,092	1,163	256	117
Wakefield	1977	4	(D)	(D)	(D)	(D)
	1982	6	644	108	32	25
Walker	1977	39	7,080	1,981	501	297
	1982	73	25,204	9,105	2,042	869

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Walled Lake	1977	9	(D)	(D)	(D)	(D)
	1982	46	7,481	3,306	830	196
Warren	1977	438	128,512	50,827	11,224	4,669
	1982	812	323,756	154,456	37,274	8,283
Wayne	1977	68	17,395	5,972	1,359	609
	1982	72	21,332	8,873	2,239	752
Westland	1977	143	19,750	6,211	1,412	787
	1982	232	55,281	22,479	5,341	1,821
Whitehall	1977	14	1,097	273	71	63
	1982	26	5,450	2,366	528	260
Williamston	1977	39	6,283	1,620	303	171
	1982	23	4,334	1,169	311	105
Wixom	1977	9	(D)	(D)	(D)	(D)
	1982	16	14,230	5,508	1,327	273
Woodhaven	1977	8	2,949	875	211	145
	1982	32	9,629	4,124	990	386
Wolverine Lake	1977	n.a.	n.a.	n.a.	n.a.	n.a.
	1982	6	1,098	486	107	33
Wyandotte	1977	103	11,360	3,719	857	536
	1982	141	30,985	14,123	3,605	1,004
Wyoming	1977	178	39,933	12,134	2,992	1,585
	1982	271	95,236	32,880	8,066	3,350
Ypsilanti	1977	89	13,446	5,476	1,292	565
	1982	178	43,454	19,808	4,684	1,428
Zeeland	1977	23	2,277	662	164	120
	1982	49	8,632	3,048	791	276

SOURCE: Bureau of the Census, _1977 Census of Selected Service Industries, Area Series, Michigan_ (Washington, D.C.: 1979), SC77-A-23, Table 5; and Bureau of the Census, _1982 Census of Selected Service Industries, Area Series, Michigan_ (Washington, D.C.: 1985), SC82-A-23, Table 8.

a. Week including 12 March.

(D): Withheld to avoid disclosing data for individual companies.

n.a.: Data not available.

TABLE XXIII-6. NUMBER OF SERVICE ESTABLISHMENTS AND SALES, AUTOMOTIVE REPAIR SERVICES AND GARAGES IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments		Sales ($1,000)		County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982		1977	1982	1977	1982
Alcona	11	n.a.	(D)	(D)	Gladwin	15	3	262	166
Alger	9	4	289	223	Gogebic	17	8	(D)	1,806
Allegan	71	14	4,553	4,683	Grand Traverse	56	39	4,468	7,262
Alpena	34	22	2,183	2,826	Gratiot	41	10	2,488	2,559
Antrim	14	5	809	609	Hillsdale	36	14	2,213	1,741
Arenac	11	6	317	648	Houghton	19	10	644	917
Baraga	4	n.a.	(D)	n.a.	Huron	29	9	1,072	879
Barry	38	18	1,680	2,071	Ingham	174	110	31,226	32,765
Bay	94	52	7,239	9,065	Ionia	43	12	1,492	1,206
Benzie	6	3	316	388	Iosco	20	13	873	1,236
Berrien	152	64	13,791	12,194	Iron	14	3	290	106
Branch	40	15	3,896	2,682	Isabella	40	25	1,860	3,390
Calhoun	103	58	10,207	11,447	Jackson	92	58	(D)	12,173
Cass	29	8	1,831	1,389	Kalamazoo	143	106	21,346	29,228
Charlevoix	14	6	467	396	Kalkaska	10	7	284	637
Cheboygan	12	11	419	586	Kent	399	243	57,198	85,207
Chippewa	25	10	627	799	Keweenaw	n.a.	n.a.	n.a.	n.a.
Clare	28	4	859	412	Lake	2	n.a.	(D)	(D)
Clinton	33	18	1,677	3,003	Lapeer	46	16	2,392	2,541
Crawford	4	4	410	400	Leelanau	9	5	476	383
Delta	28	13	898	1,456	Lenawee	88	45	6,996	7,760
Dickinson	24	17	3,087	4,493	Livingston	53	31	18,100	5,517
Eaton	44	23	2,637	4,638	Luce	4	3	160	(D)
Emmet	26	14	2,074	2,952	Mackinac	8	6	461	622
Genesee	285	174	36,156	43,293	Macomb	429	334	75,663	84,142

TABLE XXIII-6. NUMBER OF SERVICE ESTABLISHMENTS AND SALES, AUTOMOTIVE REPAIR SERVICES AND GARAGES IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982
Manistee	18	7	905	705
Marquette	52	32	3,388	4,636
Mason	20	6	1,427	769
Mecosta	18	9	1,002	1,480
Menominee	39	9	1,614	2,079
Midland	49	24	(D)	3,704
Missaukee	5	2	(D)	(D)
Monroe	82	42	6,146	10,064
Montcalm	32	14	1,330	2,006
Montmorency	15	3	295	361
Muskegon	123	61	11,150	15,257
Newaygo	16	8	611	850
Oakland	606	451	208,792	171,086
Oceana	21	7	953	2,730
Ogemaw	16	7	675	817
Ontonagon	7	2	181	(D)
Osceola	20	5	708	1,000
Oscoda	6	4	62	521
Otsego	10	6	1,061	1,448
Ottawa	123	70	14,672	15,189
Presque Isle	12	4	377	148
Roscommon	18	8	771	960
Saginaw	126	100	19,330	25,573
St. Clair	98	53	8,115	10,079
St. Joseph	44	22	3,371	4,744
Sanilac	35	12	2,114	2,636
Schoolcraft	9	4	(D)	233
Shiawassee	54	15	2,652	3,131
Tuscola	40	17	951	1,947
Van Buren	53	18	2,746	1,909
Washtenaw	160	96	16,565	23,210
Wayne	1,604	1,085	327,482	364,825
Wexford	30	11	1,845	2,847
MICHIGAN	6,487	3,887	980,956	1,070,310

SOURCE: Bureau of the Census, 1977 Census of Service Industries, Geographic Area Series, Michigan (Washington, D.C.: 1980), SC77-A-27, Table 7; and Bureau of the Census, 1982 Census of Service Industries Geographic Area Series, Michigan (Washington, D.C.: 1985), SC82-A-23, Table 8.

(D): Withheld to avoid disclosing data for individual companies.

TABLE XXIII-7. NUMBER OF SERVICE ESTABLISHMENTS AND SALES IN THE LODGINGS INDUSTRY IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments		Total receipts ($000)		County	Number of establishments		Total receipts ($000)	
	1977	1982	1977	1982		1977	1982	1977	1982
Alcona	14	2	(D)	(D)	Gladwin	7	2	272	(D)
Alger	32	12	(D)	754	Gogebic	38	18	3,468	1,804
Allegan	46	12	(D)	(D)	Grand Traverse	73	33	(D)	20,425
Alpena	28	10	2,117	4,783	Gratiot	6	5	(D)	1,213
Antrim	22	11	(D)	5,777	Hillsdale	15	3	503	(D)
Arenac	12	5	757	2,200	Houghton	30	17	2,255	2,468
Baraga	7	5	239	302	Huron	26	12	(D)	1,171
Barry	16	4	584	(D)	Ingham	36	24	11,315	12,858
Bay	25	12	5,491	5,936	Ionia	12	2	979	(D)
Benzie	35	10	2,494	4,124	Iosco	56	14	1,641	884
Berrien	63	27	(D)	13,064	Iron	23	8	672	666
Branch	21	5	(D)	596	Isabella	6	13	(D)	(D)
Calhoun	29	18	4,613	(D)	Jackson	27	14	5,197	6,969
Cass	19	4	634	272	Kalamazoo	34	23	12,626	(D)
Charlevoix	38	11	(D)	6,521	Kalkaska	14	8	846	702
Cheboygan	104	77	(D)	7,683	Kent	61	43	18,135	38,780
Chippewa	90	47	3,485	2,624	Keweenaw	16	3	(D)	(D)
Clare	18	5	1,947	(D)	Lake	23	1	368	(D)
Clinton	9	3	184	(D)	Lapeer	11	6	(D)	397
Crawford	27	7	(D)	3,634	Leelanau	36	8	3,150	(D)
Delta	33	18	3,138	3,396	Lenawee	18	6	(D)	1,537
Dickinson	23	10	2,408	1,891	Livingston	19	5	(D)	6,113
Eaton	8	5	1,050	3,412	Luce	16	8	776	433
Emmet	51	25	(D)	13,596	Mackinac	94	52	10,073	7,153
Genesee	45	32	(D)	(D)	Macomb	66	35	11,959	11,721

TABLE XXIII-9. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN SERVICE INDUSTRY ESTABLISHMENTS AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1983

County	Percentage 1973	Percentage 1983	County	Percentage 1973	Percentage 1983
Emmet	27.01	37.98	Ogemaw	12.88	13.65
Crawford	23.01	32.75	Sanilac	8.54	13.63
Oakland	18.63	27.60	Ottawa	11.54	13.47
Leelanau	20.88	24.21	Cass	7.64	13.47
Grand Traverse	19.87	23.37	Mason	10.71	13.40
Arenac	12.76	22.32	Newaygo	10.76	13.20
Gogebic	13.41	22.07	Roscommon	12.35	12.78
Clare	15.20	20.75	Midland	8.81	12.71
Lake	32.70	20.36	Oceana	10.80	12.66
Keweenaw	(D)	20.14	Alcona	11.82	12.60
Otsego	15.86	19.71	Genesee	9.58	12.19
Wexford	14.59	19.43	Mecosta	9.24	11.92
Kalamazoo	13.52	19.38	Montmorency	4.92	11.86
Bay	13.24	19.02	Montcalm	11.34	11.72
Mackinac	19.66	18.58	Iron	(D)	11.54
Wayne	12.92	18.56	Cheboygan	12.95	11.48
Kent	14.46	18.18	Clinton	8.67	11.27
Gladwin	12.24	17.92	Monroe	9.98	11.24
Washtenaw	11.55	17.42	Lapeer	8.66	10.97
Livingston	11.42	17.25	Van Buren	9.04	10.97
Isabella	12.47	17.19	Allegan	8.91	10.88
Marquette	10.97	17.16	Dickinson	(D)	10.78
Houghton	14.04	17.07	Alpena	9.58	10.64
Eaton	10.97	16.78	Hillsdale	8.09	10.31
Muskegon	11.87	16.09	Tuscola	7.86	10.22
Benzie	18.36	15.74	Missaukee	8.44	9.77
Gratiot	12.91	15.69	Alger	10.26	9.08
St. Clair	12.13	15.26	Manistee	9.35	8.79
Ingham	12.47	15.14	Ontonagon	2.44	8.75
Calhoun	11.91	15.13	Menominee	8.65	8.44
Berrien	10.85	15.06	Ionia	7.62	8.38
Huron	10.33	14.99	Iosco	6.24	8.16
Shiawassee	11.41	14.84	St. Joseph	6.18	7.57
Saginaw	10.43	14.60	Kalkaska	7.58	7.26
Charlevoix	14.12	14.54	Branch	6.55	7.16
Lenawee	10.26	14.50	Luce	(D)	6.93
Antrim	11.11	14.21	Osceola	5.47	6.22
Baraga	12.15	14.03	Jackson	12.99	(D)
Barry	9.63	14.02	Presque Isle	(D)	(D)
Macomb	9.13	13.95	Schoolcraft	9.57	(D)
Delta	11.99	13.89			
Oscoda	10.75	13.88	Michigan	12.63	17.85
Chippewa	6.84	13.82	United States	15.34	20.07

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Withheld to avoid disclosing data for individual companies.

TABLE XXIII-10. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN SERVICE INDUSTRY ESTABLISHMENTS: 1982-1983

County	Percentage change 1973-1983	Percentage change 1982-1983	County	Percentage change 1973-1983	Percentage change 1982-1983
Montmorency	245	41	Branch	106	10
Cass	213	31	Genesee	147	9
Livingston	278	23	Isabella	223	9
Cheboygan	70	22	Tuscola	116	9
Antrim	112	20	Delta	136	9
Kalkaska	333	18	Shiawassee	121	9
Alger	61	18	Monroe	150	9
Arenac	228	17	Missaukee	84	8
Roscommon	123	16	Baraga	82	8
Iosco	137	16	Calhoun	120	8
Ottawa	185	14	Grand Traverse	223	8
Midland	235	14	Alcona	84	8
Oakland	246	13	Wayne	115	8
Gladwin	188	13	Berrien	118	7
Marquette	217	13	Van Buren	112	7
Allegan	149	13	Ingham	179	7
Clinton	181	13	Sanilac	126	7
Oceana	112	13	Luce	(D)	7
Emmet	202	13	Hillsdale	127	7
Newaygo	141	13	Dickinson	(D)	7
Mason	126	12	Mecosta	164	6
Menominee	103	12	Gogebic	157	6
Kent	186	12	Alpena	101	6
Clare	189	12	Lenawee	113	6
St. Clair	163	12	Osceola	113	5
Lake	-17	12	Houghton	161	5
Macomb	179	11	Ionia	95	5
Wexford	201	11	Eaton	195	5
Charlevoix	112	11	Mackinac	89	5
Benzie	68	11	Otsego	223	4
Lapeer	151	11	Oscoda	105	4
Manistee	102	11	Crawford	203	3
Washtenaw	267	11	Ogemaw	131	1
Bay	159	11	Keweenaw	(D)	0
Saginaw	151	11	Gratiot	103	-3
St. Joseph	131	10	Leelanau	93	-12
Iron	(D)	10	Jackson	(D)	(D)
Huron	125	10	Ontonagon	206	(D)
Barry	156	10	Presque Isle	(D)	(D)
Montcalm	141	10	Schoolcraft	(D)	(D)
Muskegon	147	10			
Chippewa	146	10	Michigan	162	10
Kalamazoo	232	10	United States	203	11

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Withheld to avoid disclosing data for individual companies.

XXIV. INTERNATIONAL TRADE

The first Survey of the Origin of Exports by Manufacturing Establishments was organized in response to public and congressional requests for information on the geographic source of manufactured goods sold to customers in other countries. The survey has been repeated at three-year intervals since the first one, for 1960, was completed.

The Bureau of the Census sends copies of the reporting form to more than 20,000 manufacturing establishments with 100 or more employees. Establishments with exports valued at $25,000 or more, f.o.b. plant, are asked to report their exports. These replies are the basis for the geographic allocation of reported export shipments by the manufacturers themselves.

Estimated values of exports, f.o.b. producing plant, for each state or Standard Metropolitan Statistical Area represent the sum of reported exports and exports unknown to the manufacturer; for example, exports handled through a wholesaler. The latter figures are calculated on the basis of the geographical distribution of total manufacturing employment, since there is no survey of middlemen to make that determination.

Other foreign trade statistics are complied by the Bureau of Customs, U.S. Department of Commerce. These figures represent the flow through Michigan and other states.

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TABLE XXIV-1. VALUE OF EXPORT SHIPMENTS BY MANUFACTURING PLANTS IN MICHIGAN AND THE UNITED STATES, BY INDUSTRY GROUP, F.O.B. PRODUCING PLANT: 1972, 1977, 1980, AND 1981

(In millions of dollars)

	Michigan				United States			
Industry group	1972	1977	1980	1981	1972	1977	1980	1981
Food and kindred products	61.1	153.4	153.2	174.0	3,046.2	6,782.2	11,199.6	12,142.2
Apparel, other textile prdcts.	n.a.	78.7	166.4	212.1	n.a.	756.6	1,421.2	1,340.2
Chemicals and allied products	180.3	404.5	512.2	576.9	3,756.8	9,466.1	18,840.5	19,331.5
Paper & allied products	16.8	29.3	31.3	16.4	988.4	2,099.5	4,036.7	4,108.2
Rubber and plastics products	35.3	62.1	77.4	81.0	519.3	1,410.8	2,437.2	2,677.9
Stone, clay, and glass products	48.9	75.9	102.3	99.2	408.7	997.0	1,654.1	1,806.0
Primary metal industries	126.1	196.4	221.4	176.9	1,490.2	2,791.6	7,111.4	6,163.2
Fabricated metal products	312.2	514.3	701.0	837.3	1,429.3	4,125.2	6,229.5	7,057.9
Nonelectrical machinery	464.2	985.5	1,698.4	1,831.6	7,823.6	19,142.1	34,081.0	38,429.8
Electrical equipment and supplies	131.2	188.3	255.2	325.8	3,295.8	8,060.9	14,671.6	16,494.3
Transportation equipment	1,736.1	4,107.1	4,553.1	5,625.4	7,841.7	17,711.9	27,664.6	31,166.1
Instruments and related products	27.8	63.4	152.5	121.5	1,530.9	4,235.1	7,213.0	8,004.4
All other	382.4	78.5	140.1	196.9	4,477.1	8,216.9	14,655.8	15,561.4
TOTAL	3,522.2	6,937.4	8,764.5	10,275.0	36,608.0	85,795.9	151,216.2	164,283.1

SOURCE: Bureau of the Census, Current Industrial Reports, Series MA161, 1972 (Washington, D.C.: periodically), Table 2; and 1977 Census of Manufacturers, Origin of Exports of Manufactured Products (Washington, D.C.: 1981); Bureau of the Census, 1981 Annual Survey of Manufacturers, Origin of Exports of Manufactured Products M81(AS)-5, Table 4a, 4b, 5a, and 5b.

TABLE XXIII-7. NUMBER OF SERVICE ESTABLISHMENTS AND SALES IN THE LODGINGS INDUSTRY IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Number of establishments		Total receipts ($000)	
	1977	1982	1977	1982
Manistee	36	13	2,772	2,059
Marquette	49	17	(D)	3,656
Mason	34	18	2,985	1,407
Mecosta	18	2	1,445	(D)
Menominee	5	1	(D)	(D)
Midland	11	5	(D)	(D)
Missaukee	3	1	260	(D)
Monroe	24	10	3,319	3,911
Montcalm	19	1	549	(D)
Montmorency	14	3	149	262
Muskegon	42	19	4,410	4,735
Newaygo	17	3	469	(D)
Oakland	111	77	67,857	71,556
Oceana	21	5	855	498
Ogemaw	21	4	631	(D)
Ontonagon	22	11	(D)	690
Osceola	10	1	(D)	(D)
Oscoda	13	4	227	147
Otsego	28	8	(D)	3,470
Ottawa	28	14	5,063	8,993
Presque Isle	15	5	319	317
Roscommon	93	14	1,871	3,993
Saginaw	29	19	9,552	12,147
St. Clair	38	16	3,297	5,936
St. Joseph	34	11	(D)	2,826
Sanilac	19	6	(D)	813
Schoolcraft	35	14	1,266	2,437
Shiawassee	10	2	(D)	(D)
Tuscola	6	4	(D)	445
Van Buren	31	12	1,570	(D)
Washtenaw	31	17	19,804	(D)
Wayne	268	165	112,399	137,613
Wexford	23	12	3,467	3,630
MICHIGAN	2,739	1,244	452,557	550,315

SOURCE: Bureau of the Census, 1977 Census of Service Industries, Geographic Area Series, Michigan (Washington, D.C.: 1980), SC77-A-27, Table 7; and Bureau of the Census, 1982 Census of Service Industries, Geographic Area Series, Michigan (Washington, D.C.: 1985), SC82-A-23, Table 8.

(D): Withheld to avoid disclosing data for individual companies.

TABLE XXIII-8. NUMBER OF SERVICE ESTABLISHMENTS AND SALES, LEGAL SERVICES ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Number of establishments		Total receipts ($000)		County	Number of establishments		Total receipts ($000)	
	1977	1982	1977	1982		1977	1982	1977	1982
Alcona	2	2	(D)	(D)	Gladwin	1	5	(D)	279
Alger	2	2	(D)	(D)	Gogebic	11	5	586	1,158
Allegan	12	14	(D)	1,696	Grand Traverse	46	49	4,491	9,943
Alpena	12	8	825	1,224	Gratiot	13	8	1,120	1,284
Antrim	9	5	(D)	722	Hillsdale	10	10	(D)	1,320
Arenac	4	2	116	(D)	Houghton	13	14	3,298	3,588
Baraga	3	2	(D)	(D)	Huron	18	14	898	1,122
Barry	8	7	(D)	879	Ingham	217	155	(D)	420,022
Bay	44	37	(D)	7,621	Ionia	9	8	(D)	934
Benzie	6	4	(D)	255	Iosco	11	11	762	843
Berrien	76	57	8,292	11,462	Iron	7	6	(D)	930
Branch	13	10	(D)	1,066	Isabella	14	13	(D)	2,182
Calhoun	57	46	(D)	6,885	Jackson	60	52	6,885	8,697
Cass	12	14	(D)	1,683	Kalamazoo	131	114	18,140	28,968
Charlevoix	8	7	(D)	1,114	Kalkaska	4	2	(D)	(D)
Cheboygan	13	15	905	1,128	Kent	192	150	(D)	77,697
Chippewa	11	12	(D)	1,536	Keweenaw	n.a.	1	n.a.	(D)
Clare	6	7	(D)	1,210	Lake	2	3	(D)	131
Clinton	15	7	(D)	1,465	Lapeer	20	11	1,637	2,585
Crawford	6	4	(D)	222	Leelanau	11	4	496	158
Delta	12	9	1,832	3,174	Lenawee	31	34	2,757	3,192
Dickinson	8	8	462	1,038	Livingston	34	32	2,562	4,825
Eaton	26	21	1,209	2,169	Luce	5	3	(D)	157
Emmet	21	22	1,399	3,249	Mackinac	3	3	(D)	(D)
Genesee	239	204	20,772	31,521	Macomb	371	228	24,990	41,381

TABLE XXIII-8. NUMBER OF SERVICE ESTABLISHMENTS AND SALES, LEGAL SERVICES ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Number of establishments		Total receipts ($000)		County	Number of establishments		Total receipts ($000)	
	1977	1982	1977	1982		1977	1982	1977	1982
Manistee	10	8	(D)	800	Presque Isle	6	4	(D)	372
Marquette	32	29	3,383	5,011	Roscommon	9	9	286	417
Mason	17	11	706	1,188	Saginaw	123	91	13,904	20,097
Mecosta	8	11	(D)	1,497	St. Clair	45	29	3,541	5,953
Menominee	8	6	498	552	St. Joseph	10	18	1,095	1,847
Midland	24	20	2,433	3,456	Sanilac	12	10	991	1,191
Missaukee	3	1	68	(D)	Schoolcraft	4	3	(D)	474
Monroe	46	36	2,832	5,628	Shiawassee	22	23	2,022	2,673
Montcalm	10	9	739	1,135	Tuscola	13	9	1,046	1,125
Montmorency	3	4	(D)	105	Van Buren	23	19	2,012	2,051
Muskegon	47	37	8,690	14,837	Washtenaw	191	121	14,657	25,403
Newaygo	19	9	733	1,100	Wayne	1,564	718	215,451	346,235
Oakland	1,384	969	146,587	295,305	Wexford	13	12	(D)	1,593
Oceana	8	7	360	613					
Ogemaw	6	6	(D)	815	MICHIGAN	5,562	3,739	622,848	1,066,195
Ontonagon	3	3	109	(D)					
Osceola	6	3	306	(D)					
Oscoda	2	2	(D)	(D)					
Otsego	10	10	1,045	2,377					
Ottawa	22	31	(D)	6,158					

SOURCE: Bureau of the Census, 1977 Census of Service Industries, Geographic Area Series, Michigan (Washington, D.C.: 1980), SC77-A-27, Table 7; and Bureau of the Census, 1982 Census of Service Industries, Geo[illegible]phic Area Series, Michigan (Washington, D.C.: 1985), SC82-A-23, Table 8.

(D): With[illegible]d to avoid disclosing data for individual companies.

TABLE XXIV-2. FACTORY SHIPMENTS AND EMPLOYMENT RELATED TO MANUFACTURED EXPORTS, BY MAJOR INDUSTRY GROUP, MICHIGAN AND THE UNITED STATES: 1981

Industry group or products	Value of MI mfg. shipments (Millions of dollars)			Percentage[a]		MI mfg. employment (thousands)			Percentage[b]	
	Direct exports	Supporting exports	Total exports	Michigan	United States	Direct exports	Supporting exports	Total exports	Michigan	United States
Food and kindred	174.0	156.5	330.5	4.3	6.4	0.7	0.9	1.6	3.6	5.0
Textile mill	--	--	--	--	10.9	--	--	--	--	10.1
Apparel, other textile	212.1	42.7	254.8	16.4	4.0	2.2	0.5	2.7	15.0	3.1
Lumber and wood	20.2	45.4	65.6	9.6	11.7	0.2	0.8	1.0	8.0	10.0
Furniture and fixtures	62.5	13.4	75.9	4.1	3.0	0.6	0.2	0.8	3.3	2.8
Paper products	16.4	219.2	235.6	8.3	12.5	0.1	1.7	1.8	8.2	11.2
Printing and publishing	29.2	27.6	56.8	2.8	3.0	0.3	0.5	0.8	2.1	2.5
Chemical and allied	576.9	346.0	922.9	17.8	19.9	3.0	2.1	5.1	17.2	18.3
Petroleum and coal	14.3	93.3	107.6	5.6	6.3	(Z)	0.1	0.1	5.2	6.8
Rubber, misc. plastic	81.0	99.7	180.7	11.6	11.4	0.7	1.4	2.1	9.8	10.9
Leather and leather products	--	--	--	6.0	--	--	--	--	--	3.7
Stone, clay, glass	99.2	83.0	182.2	11.5	9.0	1.1	.8	1.9	11.9	8.9
Primary metal	176.9	1,055.3	1,232.2	17.3	19.3	1.7	9.3	11.0	17.5	18.7
Fabricated metal	837.3	919.0	1,756.3	18.1	12.4	9.2	10.5	19.7	17.4	12.2
Machinery, exc.electric	1,831.6	767.4	2,599.0	20.3	23.8	15.4	9.1	24.5	17.2	21.7
Electric, electronic equipment	325.8	104.6	430.4	15.3	16.6	3.9	1.6	5.5	15.7	17.4
Transportation equip.	5,625.4	1,217.7	6,843.1	15.4	18.3	32.3	6.7	39.0	15.9	17.9
Instruments and related	121.5	26.0	147.5	16.8	18.9	1.5	0.4	1.9	14.7	19.3
Misc. mfg. industries	39.0	6.7	45.7	8.3	10.6	0.5	0.1	0.6	5.9	8.9
Admin. & auxiliary	(X)	(X)	(X)	(X)	--	(X)	21.4	21.4	17.1	13.7
Total	10,275.0	5,237.3	15,512.3	14.7	13.4	74.4	68.4	142.8	14.6	12.8

SOURCE: U.S. Department of Commerce, Bureau of the Census, 1981 Annual Survey of Manufactures Origin of Export of of Manufactured Products 1981 (AS)-5, Tables 5a and 4a.

a. Total export related shipments as a percentage of total manufacturers' shipments.

b. Total export related employment as a percentage of total manufacturing employment.

(Z). Less than one-half of the unit of measurement shown.

(X): not applicable.

XXV. OTHER ENTERPRISE STATISTICS

This chapter includes material that cannot easily be categorized within the other chapters relating to business in Michigan. Statistics on patents and on research and development activities of business are collected and published by various agencies of the federal government.

Number	List of Tables	Page
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TABLE XXV-1. NUMBER, BUSINESS RECEIPTS, PAYROLLS, DEPRECIATION, AND NET PROFITS OF NONFARM PROPRIETORSHIPS IN MICHIGAN AND THE UNITED STATES: 1966-1981

		Thousands of dollars			
Year	Number	Business receipts	Payrolls	Depreciation	Net profit
			Michigan		
1966	215,769	7,632,329	865,609	193,124	1,160,758
1967	214,644	8,221,935	996,612	191,016	1,264,783
1968	219,172	8,203,156	1,038,499	209,713	1,318,421
1969	229,493	8,261,634	1,007,738	n.a.	1,325,899
1970	221,780	7,953,693	939,301	n.a.	1,232,920
1971	241,718	8,245,805	955,840	n.a.	1,240,018
1972	246,562	8,748,695	1,018,386	239,825	1,372,904
1973	257,408	9,362,591	1,114,025	274,870	1,542,548
1974	261,798	9,893,119	1,076,543	288,916	1,458,146
1975	264,716	9,892,274	1,090,173	303,934	1,418,023
1976	275,597	10,392,873	1,087,828	317,160	1,503,054
1977	280,050	11,423,835	1,187,609	n.a.	1,738,164
1978	287,457	12,311,968	1,289,306	n.a.	1,917,956
1978[a]	358,584	13,497,783	1,382,261	n.a.	1,931,675
1979[a]	391,562	14,576,572	1,398,430	722,638	1,904,486
1980[a]	398,585	15,875,127	1,273,803	723,459	1,840,114
1981	316,298	13,666,018	n.a.	206,109	1,592,149
			United States		
1966	5,901,571	171,643,054	19,653,340	4,481,983	25,504,318
1967	5,925,935	175,660,827	20,138,994	4,677,045	26,621,637
1968	5,998,610	184,617,439	21,229,554	4,779,256	28,299,606
1969	6,155,374	193,894,487	22,364,904	n.a.	29,739,427
1970	6,313,259	195,792,289	22,362,930	n.a.	30,022,920
1971	6,612,225	211,193,510	23,513,831	n.a.	31,516,479
1972	6,957,436	224,128,730	24,466,884	6,071,144	33,911,098
1973	7,445,153	248,785,404	26,924,663	6,862,388	38,058,018
1974	7,688,795	264,802,830	27,391,496	7,470,131	38,980,898
1975	7,759,576	273,954,741	29,018,942	7,958,143	39,636,453
1976	8,139,962	301,446,844	31,494,376	8,536,390	44,424,787
1977	8,413,806	324,492,975	32,533,568	9,541,552	49,436,518
1978	8,908,289	361,630,253	36,605,195	10,998,879	53,481,341
1978[a]	12,017,953	443,354,851	40,576,849	21,206,674	59,027,286
1979[a]	12,329,982	487,807,384	42,366,149	24,170,602	60,758,789
1980[a]	12,701,597	505,884,882	41,985,964	25,796,183	55,449,987
1981	9,584,790	427,063,055	n.a.	15,854,513	53,071,628

SOURCE: Internal Revenue Service, Statistics of Income, Business Income Tax Returns, Sole Proprietorships and Partnerships, (Washington, D.C.: annually), Table 4 and 12.

a. Includes agriculture. State data on nonfarm proprietorships no longer are listed as a separate item.
n.a.: not available.

TABLE XXV-2. NUMBER, BUSINESS RECEIPTS, PAYROLLS, DEPRECIATION, AND NET PROFITS OF PARTNERSHIPS IN MICHIGAN AND THE UNITED STATES: 1966-1980

		Thousands of dollars			
Year	Number	Business receipts	Payrolls	Depreciation	Net profit
			Michigan		
1966	31,662	2,953,941	380,274	98,563	402,722
1967	30,935	2,953,666	411,458	95,772	419,930
1968	31,721	3,065,198	410,656	111,077	447,845
1969	31,374	3,204,384	411,487	n.a.	396,754
1970	31,859	2,802,157	354,031	n.a.	252,589
1971	n.a.	n.a.	n.a.	n.a.	n.a.
1972	33,413	3,269,015	370,382	192,886	273,833
1973	34,408	3,856,285	455,088	241,160	298,961
1974	36,592	4,302,715	490,288	266,340	249,977
1975	35,537	4,289,002	476,074	324,096	253,272
1976	36,013	4,285,667	459,319	326,919	257,583
1977	37,959	4,702,704	497,388	n.a.	363,565
1978	40,252	5,921,623	625,154	n.a.	425,555
1978[a]	42,042	6,211,342	646,204	n.a.	460,884
1979[a]	42,590	6,978,504	727,995	587,193	589,339
1980[a]	46,571	6,979,474	627,592	695,580	475,967
			United States		
1966	796,116	72,808,301	9,805,683	2,361,243	9,656,194
1967	780,885	72,515,107	10,169,459	2,599,921	10,216,025
1968	795,495	75,213,174	10,617,664	2,903,298	10,756,354
1969	800,391	80,009,120	11,148,745	n.a.	9,788,097
1970	811,845	82,982,213	11,558,441	n.a.	9,122,597
1971	n.a.	n.a.	n.a.	n.a.	n.a.
1972	876,150	95,435,014	12,587,899	5,296,742	8,889,094
1973	915,994	109,476,011	13,595,004	6,382,308	7,929,218
1974	952,175	125,780,194	14,961,016	7,785,440	7,973,323
1975	964,052	134,511,262	16,179,238	9,197,292	7,000,900
1976	974,763	144,822,904	17,840,359	9,889,016	9,450,489
1977	1,048,676	164,926,675	19,041,205	11,296,382	12,867,895
1978	1,125,776	197,114,117	21,241,964	13,281,912	13,347,071
1978[a]	1,234,799	214,912,044	22,272,361	14,519,760	14,418,042
1979[a]	1,299,593	253,000,742	26,092,084	17,662,667	15,205,908
1980[a]	1,379,654	285,967,243	29,332,070	21,576,190	8,248,656

SOURCE: Internal Revenue Service, Tax Returns, (Washington, D.C.: annually), Table 2.4.

a. Includes agriculture. State data on nonfarm proprietors no longer are listed as a seperate item.

n.a.: not available.

TABLE XXIV-3. VALUE OF IMPORTS AND EXPORTS PASSED THROUGH THE DETROIT CUSTOMS DISTRICT AND THE UNITED STATES, VESSEL AND AIR SHIPMENTS AND TOTAL: 1975-1984

(In millions of dollars)

	Total		Vessel		Air	
Year	Detroit	United States	Detroit	United States	Detroit	United States
			General imports			
1975[a]	8,205.1	96,104.4	470.2	63,224.3	70.6	8,841.9
1976[a]	10,280.5	120,677.4	705.0	80,758.7	74.7	10,847.0
1977[a]	11,483.1	146,816.7	999.8	100,854.2	72.6	12,491.4
1978	12,728.1	173,249.9	805.4	115,499.0	81.0	17,923.1
1979	13,748.8	207,131.1	881.5	140,924.1	110.2	22,168.7
1980	12,721.6	245,261.9	628.6	165,147.5	136.3	28,044.2
1981	15,334.8	260,981.8	878.9	177,585.6	138.0	29,968.2
1982	16,313.5	243,951.9	687.1	155,929.7	132.7	30,932.5
1983	19,931.9	258,047.8	790.3	156,260.8	129.8	37,784.2
1984	25,942.1	325,725.7	1,143.3	192,990.9	196.0	52,334.0
			Exports of domestic and foreign merchandise			
1975[a]	9,751.1	107,651.8	249.4	61,801.1	167.5	14,554.6
1976[a]	10,889.1	114,997.2	283.9	64,868.8	184.1	16,905.5
1977[a]	12,115.5	120,163.2	354.2	65,596.5	212.1	19,660.3
1978	13,366.2	143,662.7	578.1	77,530.8	229.7	25,896.7
1979	14,210.1	181,801.6	789.0	97,788.4	171.3	36,660.6
1980	14,633.9	220,704.9	785.1	119,085.8	181.4	45,405.0
1981	17,111.4	233,739.1	601.4	123,771.3	159.1	46,390.9
1982	15,075.8	212,274.6	407.6	116,107.3	142.9	44,584.0
1983	17,865.6	200,537.6	355.0	100,829.7	165.5	45,903.8
1984	22,571.6	217,888.0	306.4	101,970.9	196.8	53,410.2

SOURCE: Bureau of the Census, *Highlights of U.S. Export and Import Trade*, (Washington, D.C.: monthly).

[a] Transaction value of imports at the foreign port of exportation, including costs to place it alongside the ship, or f.a.s. (free alongside ship) value. For prior years the figures and customs values, which generally represented the value in the foreign country for collection of import duties.

TABLE XXIV-4. WEIGHT OF WATERBORNE IMPORTS AND EXPORTS PASSED THROUGH THE DETROIT CUSTOMS DISTRICT BY PORT: 1980-1984

(Shipping weights in millions of pounds)

	Imports					Exports				
Port	1980	1981	1982	1983	1984^p	1980	1981	1982	1983	1984^p
Detroit	2,491	4,755	2,541	3,313	5,117	1,337	777	1,241	999	1,030
Port Huron	641	416	372	111	59	707	522	93	66	189
Sault Ste. Marie	3	27	100	166	10	505	326	210	152	178
Saginaw-Bay City	640	611	627	643	660	693	589	422	120	266
Muskegon	158	36	145	21	65	0	0	0	3	96
Grand Haven	159	46	94	86	76	0	0	0	83	113
Rogers City	48	47	57	20	0	2,038	2,608	1,934	2,280	1,390
Detour	0	0	45	0	0	583	659	269	346	418
Escanaba	3	0	0	4	0	176	0	90	125	268
Marquette	5	0	0	0	0	0	804	0	54	498
Mackinac Island	0	0	0	16	27	0	0	0	0	18
Presque Isle	0	57	175	80	0	7,482	5,595	2,605	4,257	3,508
Alpena	32	0	84	57	88	1,779	2,007	993	1,353	1,635
Ferrysburg	38	119	0	119	0	0	0	0	573	714
TOTAL	4,218	6,115	4,409	4,637	6,324	15,319	13,387	7,856	10,413	10,521

SOURCE: Bureau of the Census, Waterborne Exports and General Imports, (Washington, D.C.: monthly and annually), Tables I-1 and E-1.

p: preliminary.

TABLE XXV-3. NUMBER OF FRANCHISE ESTABLISHMENTS IN MICHIGAN AND THE UNITED STATES, BY TYPE OF BUSINESS: 1980, 1982, AND 1983

Kind of business	Year	Michigan			United States		
		Company owned	Franchisee owned	Total	Company owned	Franchisee owned	Total
Accounting, credit, collection agencies and general business systems	1980	0	62	62	36	1,953	1,989
	1982	0	81	81	33	2,005	2,038
	1983[a]	59	0	59	32	2,078	2,110
Construction, home improvement, maintenance, & cleaning services	1980	29	355	384	438	10,180	10,618
	1982	31	335	366	568	12,039	12,607
	1983[b]	27	324	351	487	12,361	12,848
Convenience stores	1980	78	134	212	9,661	5,202	14,863
	1982	194	134	328	9,337	4,457	13,794
	1983[c]	173	130	303	8,027	5,721	13,748
Educational products and services	1980	31	22	53	500	1,928	2,428
	1982	39	18	57	544	1,482	2,026
	1983[d]	32	34	56	554	1,512	2,066
Employment services	1980	31	98	129	1,114	2,957	4,071
	1982	31	113	144	1,292	2,747	4,039
	1983[e]	32	107	139	1,336	2,648	3,941
Hotels, motels and campgrounds	1980	25	130	155	964	5,444	6,408
	1982	22	113	135	957	4,867	5,824
	1983[f]	27	110	137	1,064	5,143	6,207
Laundry & dry cleaning services	1980	0	122	122	45	2,855	2,900
	1982	0	126	126	83	2,860	2,943
	1983[g]	0	90	90	94	2,104	2,198
Printing & copying services	1980	1	147	148	131	2,660	2,791
	1982	1	168	169	112	3,290	3,402
	1983[h]	176	2	174	118	3,622	3,740
Real estate	1980	46	890	936	192	16,740	16,932
	1982	56	769	825	171	13,910	14,081
	1983[i]	68	633	701	249	13,618	13,867
Recreation, entertainment & travel	1980	0	48	48	94	2,038	2,132
	1982	0	53	53	117	2,309	2,426
	1983[j]	0	50	50	106	2,485	2,591
Rental services - auto and truck	1980	50	137	187	1,512	4,681	6,193
	1982	44	104	148	1,591	4,323	5,914
	1983[k]	37	172	209	1,566	5,767	7,333

TABLE XXV-3. NUMBER OF FRANCHISE ESTABLISHMENTS IN MICHIGAN AND THE UNITED STATES, BY TYPE OF BUSINESS: 1980, 1982 AND 1983 (cont.)

Kind of business	Year	Michigan Company owned	Michigan Franchisee owned	Michigan Total	United States Company owned	United States Franchisee owned	United States Total
Rental services equipment	1980	1	46	47	176	1,496	1,672
	1982	0	33	35	200	1,680	1,880
	1983[l]	0	38	38	216	1,684	1,900
Restaurants	1980	766	1,680	2,446	16,082	38,993	55,075
	1982	799	1,719	2,498	18,740	40,919	59,659
	1983[m]	880	1,648	2,528	20,921	41,124	62,045
Retailing - nonfood	1980	291	486	777	10,179	19,648	29,827
	1982	360	516	876	10,164	19,787	29,951
	1983[h]	374	552	926	10,319	19,949	30,268
Retailing - food & other convenience stores	1980	57	240	297	924	11,012	11,936
	1982	100	275	375	1,735	11,318	13,053
	1983[o]	115	295	410	1,942	12,115	14,057

SOURCE: U. S. Department of Commerce, Industry and Trade Administration, Franchizing in the Economy 1980-1982, 1982-1984, and 1983-85, (Washington, D.C.).

a. Represents 92 percent of total establishments.
b. Represents 73 percent of total establishments.
c. Represents 94 percent of total establishments.
d. Represents 32 percent of total establishments.
e. Represents 95 percent of total establishments.
f. Represents 91 percent of total establishments.
g. Represents 75 percent of total establishments.
h. Represents 98 percent of total establishments.
i. Represents 99 percent of total establishments.
j. Represents 40 percent of total establishments.
k. Represents 68 percent of total establishments.
l. Represents 91 percent of total establishments.
m. Represents 92 percent of total establishments.
n. Represents 79 percent of total establishments.
o. Represents 92 percent of total establishments.

TABLE XXV-4. EXPENDITURES FOR INDUSTRIAL RESEARCH AND DEVELOPMENT IN MICHIGAN AND THE UNITED STATES, BY SOURCE OF FUNDING: 1963-1977, 1979 AND 1981

(In millions of dollars)

Date	Federal funds		Mich. as a	Company funds		Mich. as a
	Michigan	United States	% of U.S.	Michigan	United States	% of U.S.
1963	65	7,270	.89	797	5,360	14.87
1964	65	7,600	.85	835	5,753	14.51
1965	67	7,740	.86	895	6,445	13.89
1966	98	8,287	1.18	977	7,254	13.47
1967	115	8,388	1.39	952	8,032	11.85
1968	98	8,559	1.14	1,086	8,876	12.23
1969	83	8,619	.96	1,228	9,856	12.46
1970	77	7,785	.99	1,171	10,073	11.62
1971	78	7,671	1.02	1,338	10,643	12.57
1972	86	8,090	1.06	1,500	11,347	13.22
1973	56	8,222	.68	1,832	12,699	14.43
1974	78	8,332	.94	1,990	14,038	14.18
1975	114	8,765	1.30	1,858	14,776	12.57
1976	124	9,285	1.33	2,248	17,391	12.93
1977	144	10,545	1.37	2,614	19,362	13.50
1979	n.a.	12,460	n.a.	3,589[a]	25,493	n.a.
1981	n.a.	16,468	n.a.	4,272[a]	35,362	n.a.

SOURCE: National Science Foundation, Research and Development in Industry, 1966 through 1975 (Washington, D.C.: annually), NS76-322, Table B-23 (1977), and National Science Foundation, Basic Research, Applied Research, and Development in Industry, 1964 (Washington, D.C.: 1966), NS66-28, Table 26; and special release.

NOTE: The bulk of expenditures for industrial research and development are for development and made by manufacturing industries.

a. Includes federal funds.

n.a.: Not available.

TABLE XXV-5. NEW INCORPORATIONS IN MICHIGAN: 1969-1984

Year	Profit	Nonprofit	Foreign (out of state)	Total
1969	9,586	1,767	1,064	12,417
1970	8,378	1,782	1,054	11,214
1971	8,270	1,993	1,082	11,345
1972	9,202	2,134	1,175	12,511
1973	9,709	1,878	1,093	12,680
1974	9,342	2,106	1,009	12,457
1975	9,996	2,138	926	13,060
1976	11,545	2,080	972	14,597
1977	13,273	2,082	956	16,311
1978	14,538	2,148	1,039	17,725
1979	18,654	2,217	1,062	21,933
1980	16,931	2,503	1,077	20,511
1981	17,139	2,288	1,277	20,704
1982	17,201	2,294	1,300	20,795
1983	18,463	2,613	1,540	22,616
1984	19,474	2,574	1,625	23,673

SOURCE: Michigan Department of Management and Budget, *Economic Report of the Governor, 1982* (Lansing: 1982), Table C-18, and Michigan Department of Commerce, special release.

TABLE XXV-6. U.S. PATENTS ISSUED TO RESIDENTS OF MICHIGAN AND THE UNITED STATES: 1966-1984

Year	Michigan	United States	Year	Michigan	United States
1966	3,675	57,700	1976	2,691	51,808
1967	3,306	54,191	T.Q.	621	11,368
1968	2,968	48,804	1977	2,474	47,292
1969	3,160	53,422	1978	2,373	44,482
1970	2,831	49,821	1979	1,875	34,383
1971	3,386	58,693	1980	2,130	38,134
1972	3,156	54,093	1981	2,457	43,194
1973	3,091	54,690	1982	1,741	33,896
1974	3,215	57,812	1983	1,678	32,872
1975	2,832	49,494	1984	2,062	42,062

SOURCE: Patent and Trademark Office, *Commissioner of Patents and Trademarks, Annual Report, Fiscal Year: 1981* (Washington, D.C.: 1982), Table 13, and special release.

NOTE: 1966-1973 are calendar years and do not include reissues; 1974-1975 are fiscal years and include reissues.
T.Q. = transitionary quarter, 1 July 1976 - 30 September 1976.

APPENDIX

The concept of the "standard metropolitan statistical area" has been developed to meet the need for the presentation of statistics. The following excerpts from the U.S. Census of Population: 1960 and U.S. Census of Population: 1970 describe the purpose of the SMSAs.

"It has long been recognized that for many types of social and economic analysis it is necessary to consider as a unit the entire population in and around the city whose activities form an integrated social and economic system.... To permit all Federal statistical agencies to utilize the same areas for the publication of general-purpose statistics, the Office of Management and Budget has established 'standard metropolitan statistical areas' (SMSAs)."

"Except in New England, an SMSA is a county or group of contiguous counties which contains at least one city of 50,000 inhabitants or more or 'twin cities' with a combined population of at least 50,000. In addition to the county, or counties, containing such a city or cities, contiguous counties are included in an SMSA if, according to a certain criteria, they are essentially metropolitan in character and are socially and economically integrated with the central city."

"The Bureau of the Census recognizes 243 Standard Metropolitan Statistical Areas (SMSAs) in the United States and four in Puerto Rico, making a total of 247 in the 1970 census. These include the 231 SMSAs as defined and named in the Bureau of the Budget publication, Standard Metropolitan Statistical Areas: 1967, U.S. Government Printing Office, Washington, D.C. 20402. Since 1967, 16 SMSAs have been added, of which two were defined in January 1968 and an additional 14 were defined in February 1971 on the basis of the 1970 census.

Users of this statistical abstract will find that certain tables pertain to areas in Michigan which are SMSAs.

Michigan's Standard Metropolitan Statistical Areas for 1940, 1950, 1967, 1971, and 1973 were composed as follows:

MICHIGAN SMSAs, COUNTIES INCLUDED

SMSA	1940[a]	1950	1967	1971	1973
Ann Arbor-Ypsilanti			Washtenaw	Washtenaw	Washtenaw
Battle Creek				Calhoun	Calhoun Barry
Bay City[b]		Bay	Bay	Bay	Bay
Detroit	Macomb Oakland Wayne	Macomb Oakland Wayne	Macomb Oakland Wayne	Macomb Oakland Wayne	Lapeer Livingston Macomb Oakland St. Clair Wayne
Flint	Genesee	Genesee	Genesee	Genesee Lapeer	Genesee Shiawassee
Grand Rapids	Kent	Kent	Kent	Kent Ottawa	Kent Ottawa
Jackson		Jackson	Jackson	Jackson	Jackson
Kalamazoo-Portage	Kalamazoo	Kalamazoo	Kalamazoo	Kalamazoo	Kalamazoo Van Buren
Lansing-East Lansing	Ingham	Ingham	Ingham Clinton Eaton	Ingham Clinton Eaton	Ingham Ionia Clinton Eaton
Muskegon-Norton Shores-Muskegon Heights			Muskegon	Muskegon	Muskegon
Saginaw[b]	Saginaw	Saginaw	Saginaw	Saginaw	Saginaw

SOURCE: U.S. Bureau of the Census, U.S. Census of Population: 1950, 1960, 1970 and 1980; Bureau of the Budget, Metropolitan Statistical Areas.

NOTE: Because of changes in desgination of individual areas from Metropolitan Areas in 1940 to Standard Metropolitan Areas (SMSAs) for the 1950 census, to Standard Metropolitan Statistical Areas for the 1960 census, and changes in the SMSAs since 1960, the census data presented by SMSAs are not comparable.

a. The designation was changed from Metropolitan Area to Standard Metropolitan Area just prior to the 1950 census. It finally was standardized as Standard Metropolitan Statistical Area in 1959.

b. Saginaw and Bay City were classified in the 1940 census as the Metropolitan Area of Saginaw-Bay City which was composed of Bay and Saginaw counties.

In the early 1980s the Office of Management and Budget again revised the measurement definitions of metropolitan areas for use in the presentation of statistics by agencies of the Federal Government. The term "Standard Metropolitan Statistical Area" was shortened to "Metropolitan Statistical Area" (MSA), and the latter is defined in terms of counties.

Further illumination on "Metropolitan Statistical Areas" is provided in the following passages from the 1980 Census of Population, Supplementary Report Metropolitan Statistical Areas (released in 1985):

> By current standards, an area qualifies for recognition as an MSA in one of two ways: if there is a city of at least 50,000 with a total metropolitan population of at least 100,000 (75,000 in New England). In addition to the county containing the main city, an MSA also includes additional counties having strong economic and social ties to the central county, determined chiefly by the extent of the Census urbanized area and census data on commuting to work. A metropolitan statistical area may contain more than one city of 50,000 population and may cross State lines.
>
> If an area has more than one million population and meets certain other specified requirements, it now is termed a "Consolidated Metropolitan Statistical Area" (CMSA), consisting of major components recognized as "Primary Metropolitan Statistical Areas" PMSA's). Many of these PMSA's were formerly recognized as SMSA's; the majority were also included in a set of "standard consolidated statistical areas" defined by OMB beginning in 1975, each of which consisted of two or more closely associated SMSA's. Metropolitan areas not included in CMSA's are designated simply as metropolitan statistical areas (MSA's)....

As of October 12, 1984 it was estimated that the United States had twenty CMSAs. This set was also further subdivided into seventy-one PMSAs. The only CMSA in Michigan was the Detroit-Ann Arbor CMSA. This was further divided into the Ann Arbor PMSA and the Detroit PMSA. The former was comprised of Washtenaw County and the latter was comprised of Lapeer, Livingston, Macomb, Monroe, Oakland, St. Clair, and Wayne Counties.

In addition, for clarification purposes, the Detroit SMSA and the Detroit SMA are equivalent for statistical analysis purposes. After 1980, the Detroit SMSA/MSA again contained Lapeer, Livingston, Macomb, Monroe, Oakland, St. Clair, and Wayne Counties. In 1980 and prior years, however, Monroe County was excluded from the Detroit SMSA. It was instead aligned with the Toledo SMSA.

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